

Revised Remediation Summary and Closure Report

March 31, 2025

Chem State #004 API No. 30-025-23075 Incident No. nAPP2426161980 Lea County, New Mexico

Prepared For:

Octane Energy (For Cambrian Management Ltd.) 310 West Wall Street, Suite 300 Midland, Texas 79701

Prepared By:

Crain Environmental 2925 East 17th Street Odessa, Texas 79761

Gynthea K. Csain Cynthia K. Crain, P.G.



Table of Contents

INTR	RODUCTION	<i>"</i>
BAC	KGROUND	······································
3.1	Groundwater Evaluation	2
3.2		
3.3		
3.4		
SITE	ASSESSMENT/CHARACTERIZATION RESULTS	5
4.1	Site Map	5
4.2	Depth to Groundwater	5
4.3	Wellhead Protection Area	5
4.4	Distance to Nearest Significant Watercourse	5
4.5		
4.6		
REQ		
	BAC NMC 3.1 3.2 3.3 3.4 SITE 4.1 4.2 4.3 4.4 4.5 4.6 REQ	3.2 Surface Features and Other Development 3.3 Wetlands, Floodplain, and Karst Geology 3.4 Closure Criteria Currently Assumed Applicable to the Site SITE ASSESSMENT/CHARACTERIZATION RESULTS 4.1 Site Map 4.2 Depth to Groundwater 4.3 Wellhead Protection Area 4.4 Distance to Nearest Significant Watercourse 4.5 Summary of Remediation Activities

TABLES

Table 1: Summary of Soil Sample Analytical Results

FIGURES

Figure 1 – Site Location Map

Figure 2 – Soil Sample Analytical Results Map

Figure 3 – Wellhead Protection Area Map

Figure 4 – National Wetlands Inventory Map

Figure 5 – FEMA Floodplain Map

Figure 6 - Karst Potential Map

APPENDICES

Appendix A – NMOCD Communication

Appendix B – Water Well Files

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

Appendix E - Waste Manifests



1.0 Introduction

Crain Environmental (CE), on behalf of Octane Energy (Octane) for Cambrian Management Ltd. (Cambrian), has prepared this Revised Remediation Summary and Closure Report for the crude oil release at Chem State #004 (Site), located approximately 23 miles northwest of Lovington, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 33.0441246, -103.7162781. The property surface rights are owned by the State of New Mexico. 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

Pending Cambrian plans to plug and abandon (P&A) the Chem State #4 well, CE conducted a site inspection on October 25, 2023, and hydrocarbon staining was observed at the wellhead.

On December 14, 2023, Octane received a letter from the New Mexico State Land Office (SLO) Environmental Compliance Office (ECO) that provided results of a historical aerial review, and notification of a suspected release around the wellhead.

On March 12, 2024, CE conducted an initial soil investigation at the area around the wellhead and provided a Notice of Violation (NOV) to the New Mexico Oil Conservation Division (NMOCD) on September 17, 2024. On September 18, 2024, an Initial C-141 was provided to the NMOCD for Incident #nAPP2426161980.

Soil remediation and P&A activities were conducted, and a Remediation Summary and Closure Report was submitted to the NMOCD on January 23, 2025. On January 31, 2025, NMOCD denied remediation closure for the following reasons:

- Based on information provided on the scaled Figure 2, Soil Sample Analytical Results Map the
 excavation measured approximately 1,050 square feet. The C-141 indicates that the square
 footage of the area remediated was 500 square feet.
- Based on the information provided on Figure 2, an adequate amount of base samples were not collected as OCD has not approved an alternative composite and grab sample plan for this incident.
- Operator failed to provide proper Sampling Notification. Samples collected on 9/26/24 were
 collected at 1230 but the C-141N indicates samples were to be collected starting at 200 AM.
 Samples collected on 11/4/24 were collected at 1000 AM but the C-141N indicates samples were
 to be collected starting at 1130 AM.
- Chain of custody for samples collected on 11/4/24 does not match sample results. Chain of Custody indicates that it is for the Chem State #1.
- Submit a complete and accurate report through the OCD permitting website by 4/20/25.

This Revised Remediation Summary and Closure Report addresses NMOCD concerns and is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) for this historical release. NMOCD Communication is included in Appendix A.

Chem State #004 – Incident #nAPP2426161980 Revised Remediation Summary and Closure Report



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 one well (L 15570 POD 1) within a 0.5-mile radius of the Site with a recorded depth to groundwater, and one well (L 06654) with no record of water depth. Well L 15570 was installed in October of 2023 to a depth of 107 feet below ground surface (bgs). Groundwater was not encountered in the well, and the boring was plugged on October 11, 2023. Well L 06654 was drilled to a depth of 200 feet bgs on March 13, 1970.

A review of United State Geological Survey (USGS) records indicated two wells (USGS 330225103432502 and USGS 330223103432501) within a 0.5-mile radius of the Site. Each well shows recorded depths to groundwater greater than 190' bgs; however, the records are more than 25 years old.

All wells within a 0.5-mile radius are listed on the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of each well. Well records for each well are provided in Appendix B. Based on the available water well data, it is estimated that the 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 15570 POD 1	Approx. 2,607 feet to E	2023	N/A	107 / DRY
L 06654	Approx. 4,038 feet to N	1970	N/A	200 / Unknown
USGS 330225103432502	Approx. 2,102 feet to SW	1966	N/A	Unknown / 192.12
USGS 330223103432501	Approx. 2,482 feet to SW	1970	N/A	Unknown / 192.34

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. A freshwater pond is located approximately 2,604 southeast of the Site.
- 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. Freshwater emergent wetlands are located approximately 4,780 feet northwest and approximately 4,347 feet northeast of the Site.
- 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; however, freshwater emergent wetlands are located approximately 4,780 feet northwest and 4,347 feet northeast of the Site, and a freshwater pond is located approximately 2,604 feet southeast of the Site. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

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

NMOCD Closure Criteria

		Closure Criteria Based on Depth to Groundwater (mg/kg)						
Consti	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs				
Chlo	ride (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 BTE	((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.

5.0 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.

5.1 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.

5.2 Depth to Groundwater

As discussed in Section 3.1, the depth to groundwater is greater than 100' bgs.

5.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. Referring to well NMOSE and USGS well records, the depth to groundwater at the Site is greater than 100' bgs. A review of the USFWS wetlands map indicated freshwater emergent wetlands are located approximately 4,780 feet northwest and 4,347 feet northeast of the Site, and a freshwater pond is located approximately 2,604 feet southeast of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

5.4 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.

5.5 Summary of Remediation Activities

On March 12, 2024, a soil sample was collected at one location (S-1) using a backhoe. Samples collected at depths of 1' bgs and 4.2' bgs were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA Method SW846 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) by EPA Method SW 846 8021B, and chlorides by EPA Method 300.0.



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

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in samples S-1 (1') [4,440 mg/kg] and S-1 (4.2') [3,000 mg/kg].

Excavation was conducted until confirmation samples were collected from the bottom and sidewalls of the excavation on September 26, November 4, and December 18, 2024. All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins under proper chain-of-custody control for analysis of TPH, BTEX, and chlorides.

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

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

Following denial of the January 23, 2025, Remediation Summary and Closure Report, two five-point composite samples (S-6 and S-7) were collected from the bottom the excavation, and one five-point composite sample (S-2) was collected from the north side wall. ECO personnel were in attendance to observe the sample collection.

All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins under proper chain-of-custody control for analysis of TPH, BTEX, and chlorides.

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

Referring to Table 1, concentrations of all final TPH, BTEX, and chlorides were reported below the NMOCD Closure Criteria in all confirmation samples. The dimensions of the final excavation measured 20' x 25' and covered a surface area of 500 square feet.

On September 17, October 8 to October 14, October 28, and December 19, 2024, a total of 600 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc. Waste Manifests are provided in Appendix E.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a 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

Chem State #004 – Incident #nAPP2426161980 Revised Remediation Summary and Closure Report



original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. The dimensions of the final excavation measured 20' x 25' and covered a surface area of 500 square feet.

5.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-40929-1, 880-49104-1, 880-50851-2, 880-52510-1, and 880-54894-1 generated by Eurofins in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix C.

6.0 Request for Closure

A total of 600 cubic yards of soil was excavated and hauled to disposal at GM Inc. All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a 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 dimensions of the final excavation measured 20' x 25' and covered a surface area of 500 square feet.

As the Chem State #004 well has been plugged and abandoned, the backfilled excavation and well pad will be cross ripped to a minimum of 18 inches with a furrow spacing of 2 feet, and seeding will be conducted during the first growing season of 2025 (i.e. spring of 2025). Seeding will be conducted by seed drill method using the Loamy (L) NMSLO Seed Mix (planted in the amount specified in the pounds live seed (PLS) per acre), and fresh water will be applied for two consecutive weeks following re-seeding.

The site will be monitored for vegetation growth to ensure that the reclamation activities performed were sufficient. Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density, and a Final Reclamation Report will be submitted when vegetation has been established to within 75% of natural conditions.

On behalf of Cambrian Management Ltd, Octane respectfully requests the closure of Incident # nAPP2426161980.



7.0 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: New Mexico State Land Office

Environmental Compliance Office

Via email: eco@nmslo.gov



TABLE

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS CAMBRIAN MANAGEMENT, LTD. CHEM STATE #004

Sample ID	Sample	Sample	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
	Date	Depth						milligran	ns per kilog	ram (mg/kg)			
NMOCD Closu	NMOCD Closure Criteria (Surface to 4' bgs)						100	10	-	-	•	50	600
NMOCD (NMOCD Closure Criteria (>4' bgs)				DRO = 000	-	2,500	10	-	-	•	50	20,000
									•				
S-1 (1')	03/12/24	1'	Excavated	166	4,020	258	4,440	<0.00202	0.00261	0.0133	0.192	0.208	3,140
S-1 (4.2')	03/12/24	4.2'	Excavated	<50.1	2,820	182	3,000	<0.00200	<0.00200	<0.00200	0.0174	0.0174	2,890
S-1 (4.5')	09/26/24	4.5'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	7,790
S-2 (0-4')	09/26/24	0-4'	Excavated	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,710
S-2 (0-4.5')	11/04/24	0-4.5'	In Situ	<50.0	<50.0	<50.0	<50.0						387
S-2 (0-4.5')	02/25/25	0-4.5'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	< 0.00399	< 0.00399	33.3
S-3 (0-4')	09/26/24	0-4'	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	825
S-3 (0-4.5')	11/04/24	0-4.5'	Excavated	<49.8	<49.8	<49.8	<49.8						1,640
S-3 (0-4.5')	12/18/24	0-4.5'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	64.6
S-4 (0-4')	09/26/24	0-4'	Excavated	<49.9	112	<49.9	112	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,120
S-4 (0-4.5')	11/04/24	0-4.5'	Excavated	<50.0	<50.0	<50.0	<50.0						2,990
S-4 (0-4.5')	12/18/24	0-4.5'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	86.5
, ,	<u> </u>								<u> </u>				
S-5 (0-4')	09/26/24	0-4'	Excavated	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00399	2,240
S-5 (0-4.5')	11/04/24	0-4.5'	Excavated	<49.7	<49.7	<49.7	<49.7						696
S-5 (0-4.5')	12/18/24	0-4.5'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	82.1
, ,													
S-6 (4.5')	02/25/25	4.5'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	196
			2			1							
S-7 (4.5')	02/25/25	4.5'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	264
,													

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 and italic font indicates soil was excavated, sprayed with Microblaze, and returned to excavation.



FIGURES

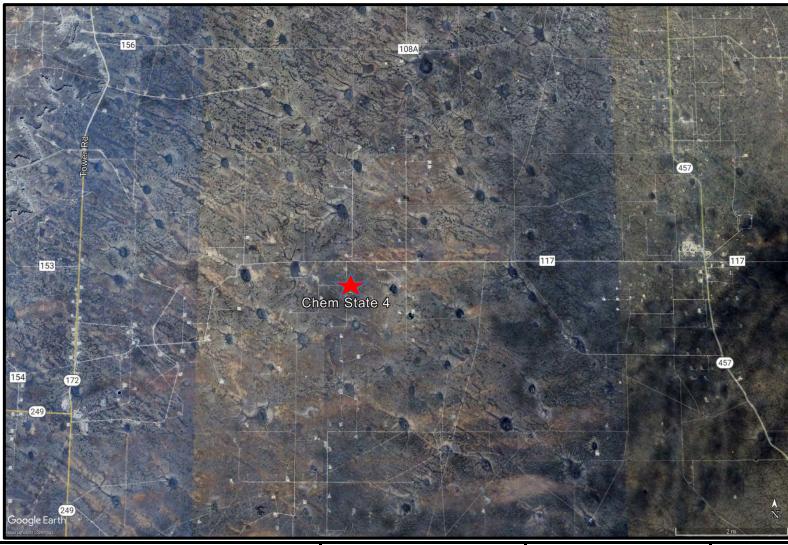




Figure 1
Site Location Map

Cambrian Management Chem State #004 Lea County, New Mexico Drafted by: CC | Checked by: CC
Draft: Jan. 21, 2025

GPS: 33.0441246° -103.7162781



Base Map From Google Earth Pro



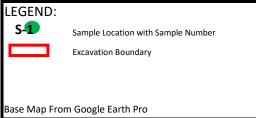


Figure 2
Soil Sample Analytical Results
Map
Cambrian Management
Chem State #004

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: March 31, 2025

GPS: 33.0441246° -103.7162781°







Figure 3
Wellhead Protection Area
Map
Cambrian Management
Chem State #004

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Jan. 21, 2025

GPS: 33.0441246° -103.7162781



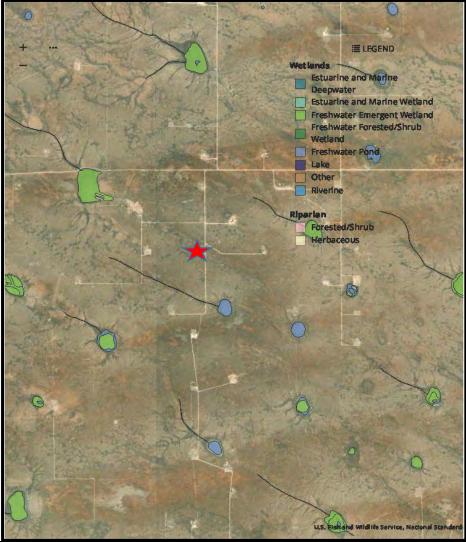




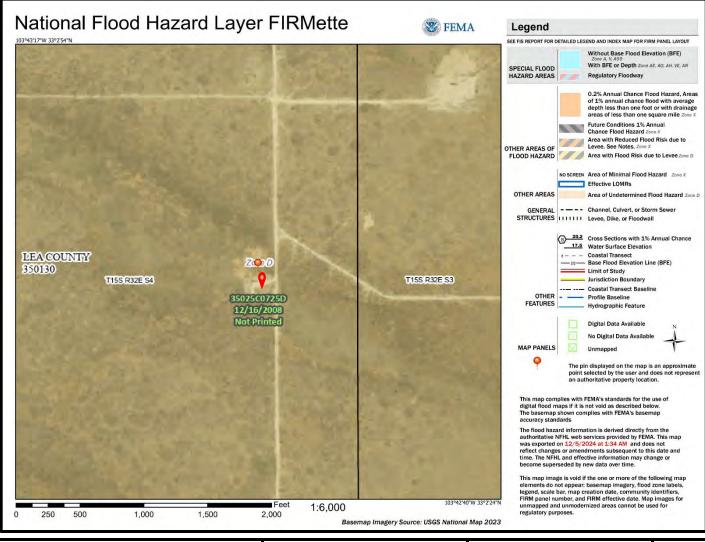
Figure 4
National Wetlands Inventory
Map
Cambrian Management
Chem State #004
Lea County, New Mexico

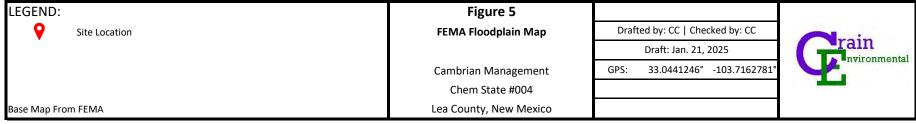
Drafted by: CC | Checked by: CC

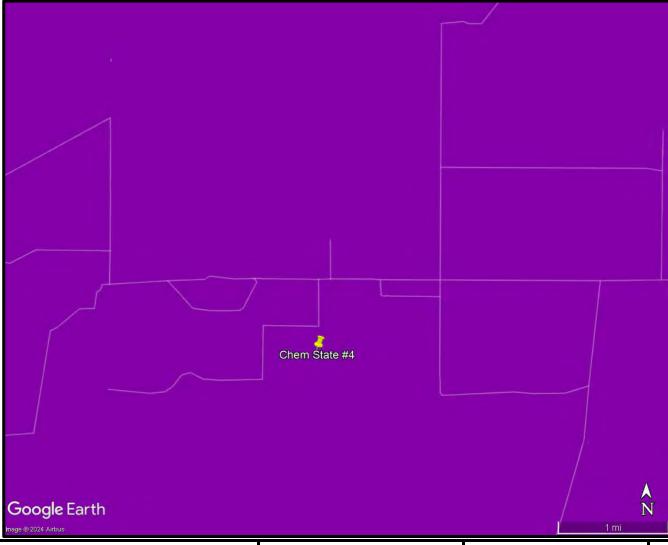
Draft: Jan. 21, 2025

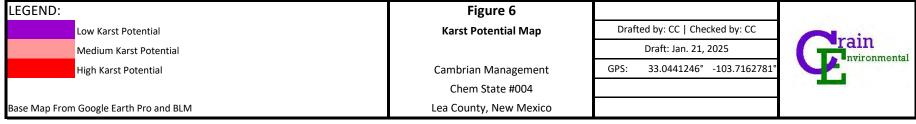
GPS: 33.0441246° -103.7162781













Appendix A: NMOCD Communication

Cambrian Management - Chem State #004 (Incident #nAPP2426161980) - Extension Request

Inbox



Cindy Crain <cindy.crain@gmail.com>

to Nelson,, Chris

Sat, Dec 14, 3:37 PM (9 days ago)

2:22 PM (6 hours ago)



Nelson,

Remediation is being conducted at the Cambrian Management (Cambrian) Chem State #004 wellhead; however, the most recent bottom and sidewall samples collected on Noveml reported concentrations above the Closure Criteria. Additional excavation has been conducted and confirmation samples will be collected on December 18, 2024.

As a Closure Report is due to the OCD by December 17, 2024, Cambrian respectfully requests a 90-day extension for submission of the Report. Every effort will be made to submit Report as soon as possible.

Please let me know if you have any questions, or if you approve the extension.

Thank you,

Cindy Crain

--

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



Velez, Nelson, EMNRD

to me

Good afternoon Cindy,

Thank you for the inquiry.

The incident remediation closure report due date (RCRDD) had lapsed after June 27, 2024. In the future, please submit your requests prior to its RCRDD. Failure may result in any request being denied.

Given the circumstance, your request for a 90-day time extension request date is approved from the today's date. The Remediation Due date has been updated 03/24/2025.

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

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

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

Regards,

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

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



From: Cindy Crain < cindy.crain@gmail.com>

Sent: Saturday, December 14, 2024 2:37 PM

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

Cc: Chris Gaddy < chris.gaddy@octane-energy.com>

Subject: [EXTERNAL] Cambrian Management - Chem State #004 (Incident #nAPP2426161980) - Extension Request

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

Nelson,

Remediation is being conducted at the Cambrian Management (Cambrian) Chem State #004 wellhead; however, the most recent bottom and sidewall samples collected on Novemi reported concentrations above the Closure Criteria. Additional excavation has been conducted and confirmation samples will be collected on December 18, 2024.

As a Closure Report is due to the OCD by December 17, 2024, Cambrian respectfully requests a 90-day extension for submission of the Report. Every effort will be made to submit Report as soon as possible.

Please let me know if you have any questions, or if you approve the extension.

Thank you, Cindy Crain

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

• • •

[Message clipped] View entire message



Cindy Crain

to Chris, Nelson,

Thank you, Nelson -

I will let you know if I have any questions.

Have a Merry Christmas!

Cindy Crain

8:30 PM (0 minutes ago)





Cindy Crain <cindy.crain@gmail.com>

The Oil Conservation Division (OCD) has rejected the application, Application ID: 423980

4 messages

OCDOnline@state.nm.us < OCDOnline@state.nm.us >

Fri, Jan 31, 2025 at 12:58 PM

To: cindy.crain@gmail.com

To whom it may concern (c/o Cindy Crain for CAMBRIAN MANAGEMENT LTD),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2426161980, for the following reasons:

- Remediation closure denied.
- Based on information provided on the scaled Figure 2, Soil Sample Analytical Results Map the excavation measured approximately 1,050 square feet. The C-141 indicates that the square footage of the area remediated was 500 square feet.
- Pursuant to 19.15.29.12 D. (1)(c) NMAC, Alternately, without division approval, the responsible party may elect to perform a composite and grab sample plan of the remediated area where each composite sample is not representative of more than 200 square feet. Based on the information provided on Figure 2, an adequate amount of base samples were not collected as OCD has not approved an alternative composite and grab sample plan for this incident.
- Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Samples collected on 9/26/2024 were collected at 1230 but the C-141N indicates samples were to be collected starting at 200 AM. Samples collected on 11/4/2024 were collected at 1000 AM but the C-141N indicates samples were to be collected starting at 1130 AM.
- Chain of custody for samples collected on 11/4/2024 does not match sample results. Chain of Custody indicates that it is for the Chem State #1.
- Submit a complete and accurate report through the OCD permitting website by 4/30/2025.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 423980. Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Brittany Hall
Projects Environmental Specialist - A
505-517-5333
Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Cindy Crain <cindy.crain@gmail.com>

Sun, Feb 16, 2025 at 2:16 PM

To: "Hall, Brittany, EMNRD" <bri> srittany.hall@emnrd.nm.gov>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, Chris Gaddy <chris.gaddy@octane-energy.com>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "David, Deon W." <ddavid@nmslo.gov>, "Elliott, April L." <aelliott@nmslo.gov>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>

Brittany,

Your denial of Closure at the Cambrian Management, Chem State #4 (Incident # nAPP2426161980) has been received, and I have a few questions/clarifications (provided below in red):

- Based on information provided on the scaled Figure 2, Soil Sample Analytical Results Map the excavation measured approximately 1,050 square feet. The C-141 indicates that the square footage of the area remediated was 500 square feet. The square footage reported on the C-141 was correct. The final excavation measured 20' x 25'.
- Pursuant to 19.15.29.12 D. (1)(c) NMAC, Alternately, without division approval, the responsible party may
 elect to perform a composite and grab sample plan of the remediated area where each composite sample
 is not representative of more than 200 square feet. Based on the information provided on Figure 2, an
 adequate amount of base samples were not collected as OCD has not approved an alternative composite
 and grab sample plan for this incident. Based on the square footage, do additional base samples need to
 be collected?
- Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Samples collected on 9/26/2024 were collected at 1230 but the C-141N indicates samples were to be collected starting at 200 AM. Samples collected on 11/4/2024 were collected at 1000 AM but the C-141N indicates samples were to be collected starting at 1130 AM. Samples collected on 9/26/24 were to be collected at 2:00 PM, but were collected from 12:30 to 1:00 PM. I was in the area collecting samples from Chem State #1, Chem State #3, Chem State #4, and Chem RZ State #8 from 9:00 AM to 3:05 PM. No OCD or SLO personnel visited the sites during that time. Does the sample collected from 5-1 at 4.5' bgs on 9/26/24 need to be recollected? Samples collected on 11/4/24 were collected from 11:25 to 11:40 (as will be shown on the revised lab report). Does the sidewall sample S-2 (0-4.5') that was collected on 11/4/24 need to be recollected?
- Chain of custody for samples collected on 11/4/2024 does not match sample results. Chain of Custody indicates that it is for the Chem State #1. The incorrect chain of custody for these samples was included in the lab report. The report will be revised by Eurofins to include the accurate chain of custody.
- Submit a complete and accurate report through the OCD permitting website by 4/30/2025. Based on the information provided in this email, please let me know if additional samples need to be collected prior to submitting a revised report to the OCD permitting website. If samples do not need to be collected, would it be possible to add the revised laboratory report for samples collected on 11/4/24 to the portal without submitting an entirely new report?

I appreciate your assistance! I would just like to be clear on OCD expectations prior to submitting a complete and accurate report (or additional information).

Thank you, Cindy Crain

[Quoted text hidden]

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

Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Mon, Feb 17, 2025 at 10:19 AM

To: Cindy Crain <cindy.crain@gmail.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, Chris Gaddy <chris.gaddy@octane-energy.com>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "David, Deon W." <ddavid@nmslo.gov>, "Elliott, April L." <aelliott@slo.state.nm.us>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>, "Smith, Cory, EMNRD" <cory.smith@emnrd.nm.gov>

Cindy,

Please see my responses below in green.

 Based on information provided on the scaled Figure 2, Soil Sample Analytical Results Map the excavation measured approximately 1,050 square feet. The C-141 indicates that the square footage of the area remediated was 500 square feet. The square footage reported on the C-141 was correct. The final excavation measured 20' x 25'.

Pursuant to 19.15.29.12 E.(1)(a) NMAC, the remediation closure report must include a scaled site and sampling diagram. The dimensions on the included Figure 2, *Soil Sample Analytical Results Map* show

that the excavation measured approximately 35' by 30'. It is the operator's responsibility to ensure that the maps are drawn to scale. The information provided on the map must be to scale and match what is provided in the report and on the C-141.

Pursuant to 19.15.29.12 D. (1)(c) NMAC, Alternately, without division approval, the responsible party may
elect to perform a composite and grab sample plan of the remediated area where each composite sample
is not representative of more than 200 square feet. Based on the information provided on Figure 2, an
adequate amount of base samples were not collected as OCD has not approved an alternative composite
and grab sample plan for this incident. Based on the square footage, do additional base samples need to
be collected?

Pursuant to 19.15.29.12 D. (1)(c) NMAC, Alternately, without division approval, the responsible party may elect to perform a composite and grab sample plan of the remediated area where each composite sample is not representative of more than 200 square feet. As stated in your response to the first bullet point, the excavation measure 20'x25' = 500 square feet. At least 2 base samples from the excavation should have been collected.

• Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Samples collected on 9/26/2024 were collected at 1230 but the C-141N indicates samples were to be collected starting at 200 AM. Samples collected on 11/4/2024 were collected at 1000 AM but the C-141N indicates samples were to be collected starting at 1130 AM. Samples collected on 9/26/24 were to be collected at 2:00 PM, but were collected from 12:30 to 1:00 PM. I was in the area collecting samples from Chem State #1, Chem State #3, Chem State #4, and Chem RZ State #8 from 9:00 AM to 3:05 PM. No OCD or SLO personnel visited the sites during that time. Does the sample collected from 5-1 at 4.5' bgs on 9/26/24 need to be recollected? Samples collected on 11/4/24 were collected from 11:25 to 11:40 (as will be shown on the revised lab report). Does the sidewall sample S-2 (0-4.5') that was collected on 11/4/24 need to be recollected?

Regardless of whether an OCD representative shows up to witness sampling, a complete and accurate C-141N (sampling notification) must be submitted. The C-141N functions to give the OCD an opportunity to witness sampling. If changes are to be made to the sampling dates and time that are reported on the C-141N, a variance request from this portion of the rule should be submitted prior to those changes. You may request a variance to use any samples that were collected outside of the dates and times specified on the C-141N but be advised that the variance request must be made in accordance with 19.15.29.14 A. (1) and (2) NMAC, which states "A responsible party may file a written request for a variance from any requirement of 19.15.29 NMAC with the appropriate division district office. The variance request must include: (1) a detailed statement explaining the need for a variance; and (2) a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment."

• Chain of custody for samples collected on 11/4/2024 does not match sample results. Chain of Custody indicates that it is for the Chem State #1. The incorrect chain of custody for these samples was included in the lab report. The report will be revised by Eurofins to include the accurate chain of custody.

Include the corrected laboratory report(s) in the next submittal.

• Submit a complete and accurate report through the OCD permitting website by 4/30/2025. Based on the information provided in this email, please let me know if additional samples need to be collected prior to submitting a revised report to the OCD permitting website. If samples do not need to be collected, would it be possible to add the revised laboratory report for samples collected on 11/4/24 to the portal without submitting an entirely new report?

See the information above.

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

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Cindy Crain <cindy.crain@gmail.com> Sent: Sunday, February 16, 2025 1:17 PM

To: Hall, Brittany, EMNRD < Brittany. Hall@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Chris Gaddy <chris.gaddy@octane-energy.com

>; Biernoff, Ari <abiernoff@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; David, Deon W.

<ddavid@nmslo.gov>; Elliott, April L. <aelliott@slo.state.nm.us>; Graeser, Christopher L.

<cgraeser@nmslo.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>

Subject: [EXTERNAL] Fwd: The Oil Conservation Division (OCD) has rejected the application, Application ID: 423980

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

[Quoted text hidden]

Cindy Crain <cindy.crain@gmail.com>

Mon, Feb 17, 2025 at 11:06 AM

To: "Hall, Brittany, EMNRD" <Brittany.Hall@emnrd.nm.gov>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, Chris Gaddy <chris.gaddy@octane-energy.com>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "David, Deon W." <ddavid@nmslo.gov>, "Elliott, April L." <aelliott@slo.state.nm.us>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>, "Smith, Cory, EMNRD" <cory.smith@emnrd.nm.gov>

Thank you, Brittany -

Following sampling notifications to the OCD and SLO, samples will be collected soon and a revised report will be submitted to the OCD portal and the SLO before 4/30/25.

I appreciate you taking the time to get back with me!

Cindy Crain [Quoted text hidden]



Appendix B: Water Well Files



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Well	Engineer Well Number: Lowner: Tetra Tech on beh	nalf of ConocoPhi	lips		Dho	one No.: 713	3-806-6871	
	ng address: 901 W Wall S				riic	one 140	200000000000000000000000000000000000000	
City:	Midland		State:		TX		Zip code:	79701
II. W	VELL PLUGGING INFO							
1)	Name of well drilling of	ompany that plug	ged well: Jo	hn Scarbo	orough Drilli	ng Inc		
2)	New Mexico Well Dril	ler License No.:	WD-1188			Expira	ation Date:	3/31/2024
3)	Well plugging activities Lane Scarborough	s were supervised	by the follow	ving well	driller(s)/rig	supervisor(s	s):	
4)	Date well plugging beg	an: 10/11/202	3	Date v	ell plugging	g concluded:	10/11/2023	3
5)	GPS Well Location:	Latitude: Longitude:		deg,		38.09 n, 26.94	_ sec _ sec, WGS	84
6)	Depth of well confirme by the following manne	d at initiation of per: Cement-bento	olugging as: nite slurry (m	107 ax 5.2 gal	_ ft below g lons water p	round level (er 94-lb sack	bgl), of Type I/II P	ortland cemen
7)	Static water level meas	ured at initiation	of plugging:	DRY	_ft bgl			
8)	Date well plugging plan	of operations w	as approved b	y the Stat	e Engineer:	09/07/2023	3	
9)	Were all plugging activ differences between the							
						DOED	EOS E VON II	3 PM 1125

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (fl bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	107 feet - 2 feet below ground surface: Cement-bentonite slurry (bentonite powder) was mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement. 2 feet to 0 feet below ground surface: soils and pad material collected during drilling of the temporary well	17.1 gallons of cement-bentonite slurry based on 2 inch inside diameter hole from 2 feet to 107 feet below the ground surface	17.4 gallons theoretically based on 2 inch inside diameter hole to 107 feet below the ground surface	Filled from the bottom upwards to 2 feet below the ground surface using a tremie pipe. The sealant material (cement-bent onite slurry) was pumped through the tremie pipe extended to near well bottom and kept below the top of the slurry column as the well is plugged from bottom-upwards, while the slurry displaces the standing water column upwards from below.	
-	Į.		AND OBTAIN 1805	IDSE DII N	JU 3 2023 PML /25

III. SIGNATURE:

I, Lane Scarborough , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller Date

Version: September 8, 2009 Page 2 of 2

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Sec Tws Rng Χ Υ Map 620685.9 NA L 15570 POD1 SE NE SW 03 15S 32E 3656897.6 * UTM location was derived from PLSS - see Help **Driller License: Driller Company:** SCARBOROUGH DRILLING INC. 1188 **Driller Name:** SCARBOROUGH, LANEIRE, RODNEY **Drill Start Date: Drill Finish Date:** Plug Date: 2023-10-11 **PCW Rcv Date:** Log File Date: Source: **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: **Depth Well: Depth Water:**

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

1/21/25 7:29 PM MST Point of Diversion Summary

 $@2024 \ New \ Mexico \ Office \ of the \ State \ Engineer, \ All \ Rights \ Reserved. \ | \ \underline{Disclaimer} \ | \ \underline{Contact \ Us} \ | \ \underline{Help} \ | \ \underline{Home} \ |$



New Mexico Office of the State Engineer

Water Right Summary

get image

WR File Number: L 15570

Subbasin:

Cross Reference:

Primary Purpose: MON MONITORING WELL

Primary Status:

PMT Permit

Total Acres: Total Diversion: 0.000

Subfile:

Header:

Owner:

0.000 Cause/Case:

Owner.

TETRA TECH O/B/O CONOCO PHILLIPS COMPANY Owner Class: User

Contact:

CHRISTIAN LLULL

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres Diversion Consumptive
	<u>750812</u>	EXPL	2023-09-07	PMT	APR	L-15570 POD1	T	0.000 0.000

Current Points of Diversion

POD Number Well Tag	Source Q64 Q16 Q4 S	ec Tws Rng X	Map Other Location Desc	
<u>L 15570 POD1</u> NA	SE NE SW 0	3 15S 32E 620685.9 3	656897.6 O CHEM STATE 5_DTW	

^{*} UTM location was derived from PLSS - see Help

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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

APPLICATION TO APPROPRIATE UNDERGROUND WATERS IN ACCORDANCE WITH SECTION 75-11-1 NEW MEXICO STATUTES

(Three Acre Feet Per Annum)

1970 1/1/1/26

509113

1.	Name and Address of Applicant: File No. L-6654
	Sams & Dean Cattle Co.
	- No.
	Box 845
	Lovington, N. M.
2.	Describe well location under one of the following subheadings:
	a
	b. Tract Noof Map Noof theDistr
	c. Lot Noof Block Noof theSubdivision, of record
	County.
	d. (Describe location by direction and distance from known land marks.)
	The state of the s
3.	Give street address or route and box No. of property upon which well is to be located, if possible:
	are the state of t
4.	Name of driller, if known: Complete
5.	Approximate depth of well (if known) 200 feet; outside diameter of casing 7 inches.
	country of the second of the s
6.	Use of water (check appropriate box or boxes):
	Household, trees, lawn and non-commercial garden not to exceed 1 acre.
	X Livestock watering.
	Drinking and sanitary purposes or the irrigation of non-commercial trees, shrubs and lawns in conjunction was a commercial operation.
	Prospecting, mining or drilling operations to discover or develop natural resources.
	Construction of public works, highways and roads.
	1' any of the last three were marked, give name and nature of business under Remarks. (Item 7)
	Remarks: To use an existing well for livestock watering purposes.
7.	Self-adiative testing and the experience of the self-adiative and
7.	
7.	The state of the s
7.	I, Bob Dean affirm that the foregoing statements are true to the best of my knowledge of the posmit has been obtained
7.	and belief and that development shall not commence until approval of the permit has been obtained.
7.	I, Bob Dean affirm that the foregoing statements are true to the best of my knowledge and that development shall not commence until approval of the permit has been obtained. Applicant

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre feet in any period of one year.
- B. Well shall be drilled only by a driller licensed in the State of New Mexico in accordance with Section 75-11-13 New Mexico Statutes. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter (Section 75-11-13).
- C. Driller's log must be filed in office of the State Engineer within 10 days after well is drilled or driven. Failure to file log within that time shall result in automatic cancellation of the permit. Upon request of the permittee, log forms will be provided by the State Engineer.
- D. Diameter of casing limited to 7 inch outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. Any use of water from the well other than as indicated shall automatically cancel this permit unless prior approval is obtained from the State Engineer.

SPECIFIC CONDITIONS OF APPROVAL (Applicable only when so indicated on the other side of this form)

- Depth of well in no event to exceed the thickness of the valley fill or Ogallala formation.
- Well to be constructed to artesian well specifications and State Engineer Office to be notified before casing is landed or cemented.
- Appropriation and use of water under this permit limited for a definite period of not to exceed one year from the date of approval.
- Limited to household, trees, lawn and non-commercial garden not to exceed one acre and/or stock use.
- 5. A totalizing meter approved by the State Engineer shall be installed on the discharge line before the first branch line prior to the appropriation of water and pumping records shall be submitted to the District Supervisor (a) for each calendar month, on or before the 30th day of the following month (b) on the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 30th day of January of the following year.
- Well to be plugged upon completion of permitted use and plugging report filed within 10 days.
- Final approval for the use of said well dependent upon a leakage test to be made by the State Engineer Office.

GENERAL INSTRUCTIONS

Application shall be executed in triplicate and forwarded with a \$1.00 filing fee to the appropriate office of the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well to be retained for uses as indicated, an explanation (and file number, if possible) should be given under Remarks. (Item 7).

Applications for appropriation, well logs and request for information in the following basins should be addressed to the State Engineer at the office indicated:

Rio Grande, Bluewater and Estancia Basins District No. 1, 505 Marquete, N. W., Rm 1023, Albuquerque, New Mexico

Roswell, Lea, Portales, Carlsbad, Hondo, Penasco and Jal Basins District No. 2, Box 1717, Roswell, New Mexico

Mimbres, Hot Springs, Virden Valley, Animas, Playas, Gila-San Francisco, San Simon, Lordsburg and Nutt-Hockett Basins District No. 3, Box 844, Deming, New Mexico

- Appropriation limited to a maximum of 3 acre feet per annum, or the amount <u>reasonably required</u> for the purpose specified, whichever is the lesser.
- Released to Imaging: 5/14/2025 3:46:45 PM 3 acre feet per annum from any one well.

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr Q64** Q16 Q4 Sec Tws Rng Х Υ Map L 06654 619849.0 NE NE 04 **15S** 32E 3657710.0 * * UTM location was derived from PLSS - see Help **Driller License: Driller Company: Driller Name: Drill Start Date: Drill Finish Date:** Plug Date: **PCW Rcv Date:** Log File Date: Source: **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: **Depth Well: Depth Water:**

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

1/21/25 8:43 PM MST Point of Diversion Summary

 $@2024 \ New \ Mexico \ Office \ of the \ State \ Engineer, \ All \ Rights \ Reserved. \ | \ \underline{Disclaimer} \ | \ \underline{Contact \ Us} \ | \ \underline{Help} \ | \ \underline{Home} \ |$



New Mexico Office of the State Engineer

Water Right Summary

get image

WR File Number: L 06654 Subbasin: L Cross Reference:

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT Permit

Total Acres: Subfile: Header:

Total Diversion: 3.000 **Cause/Case:**

Owner: SAMS & DEAN CATTLE COMPANY Owner Class: Owner

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To Acres	Diversion Consumptive
	509113	72121	1970-03-13	PMT	APR	L 06654	T	3.000

Current Points of Diversion

 POD Number Well Tag
 Source
 Q64
 Q16
 Q4
 Sec
 Tws
 Rng
 X
 Y
 Map
 Other Location Desc

 L 06654
 NE
 NE
 04
 15S
 32E
 619849.0
 3657710.0 * •
 •

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

^{*} UTM location was derived from PLSS - see Help



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources



Click to hideNews Bulletins

• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 330223103432501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 330223103432501 15S.32E.04.344222

Lea County, New Mexico

Table of data

1976-03-29

Latitude 33°02'25", Longitude 103°43'21" NAD27

Land-surface elevation 4,310.30 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

<u>Tab-separat</u>	ed data									
Graph of da	<u>ta</u>									
Reselect per	<u>riod</u>									
Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1970-04-02	2	D	62610		4117.79	NGVD29	1		Z	
1970-04-02	2	D	62611		4119.51	NAVD88	1		Z	
1970-04-02	2	D	72019	192.51			1		Z	
1971-09-0	3	D	62610		4117.88	NGVD29	1		Z	
1971-09-03	3	D	62611		4119.60	NAVD88	1		Z	
1971-09-03	3	D	72019	192.42			1		Z	
1976-03-29	9	D	62610		4117.96	NGVD29	1		Z	
1976-03-29	9	D	62611		4119.68	NAVD88	1		Z	

Explana	tion
---------	------

Code	Description
D	Date is accurate to the Day
62610	Groundwater level above NGVD 1929, feet
62611	Groundwater level above NAVD 1988, feet
72019	Depth to water level, feet below land surface
	D 62610 62611

72019

192.34

USGS Groundwater for USA: Water Levels -- 1 sites

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

Accessibility Privacy FOIA Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-09-18 00:01:55 EDT

0.35 0.24 nadww02





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Site Information	 United States	~	GO

Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.

USGS 330223103432501 15S.32E.04.344222

Available data for this site SUMMARY OF ALL AVAILABLE DATA ➤ GO

Well Site

DESCRIPTION:

Latitude 33°02'25", Longitude 103°43'21" NAD27 Lea County, New Mexico , Hydrologic Unit 12080003

Well depth: not determined.

Land surface altitude: 4,310.30 feet above NGVD29.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1970-04-02	1976-03-29	3
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> Inquiries

Questions or Comments

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources



Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 330225103432502

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 330225103432502 15S.32E.04.34242A

Lea County, New Mexico

Latitude 33°02'28", Longitude 103°43'21" NAD27

Land-surface elevation 4,311.10 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

able of data
ab-separated data
raph of data
eselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1966-03-29		D	62610		4118.20	NGVD29	1	Z		
1966-03-29		D	62611		4119.92	NAVD88	1	Z		
1966-03-29		D	72019	192.90			1	Z		
1970-04-03		D	62610		4118.54	NGVD29	1	Z		
1970-04-03		D	62611		4120.26	NAVD88	1	Z		
1970-04-03		D	72019	192.56			1	Z		
1971-03-31		D	62610		4118.70	NGVD29	1	Z		
1971-03-31		D	62611		4120.42	NAVD88	1	Z		
1971-03-31		D	72019	192.40			1	Z		
1976-03-29		D	62610		4118.58	NGVD29	1	Z		
1976-03-29		D	62611		4120.30	NAVD88	1	Z		
1976-03-29		D	72019	192.52			1	Z		
1981-01-27		D	62610		4118.46	NGVD29	1	Z		
1981-01-27		D	62611		4120.18	NAVD88	1	Z		
1981-01-27		D	72019	192.64			1	Z		
1986-01-10		D	62610		4119.06	NGVD29	1	Z		
1986-01-10		D	62611		4120.78	NAVD88	1	Z		
1986-01-10		D	72019	192.04			1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measure
1990-12-06		D	62610		4118.98	NGVD29	1	:	<u>7</u>	
1990-12-06		D	62611		4120.70	NAVD88	1	:	Z	
1990-12-06		D	72019	192.12			1	:	Z	

Exp	lan	ıat	101	

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions or Comments <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-09-17 23:55:24 EDT 0.31 0.22 nadww01





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

Click to hideNews Bulletins

• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.

USGS 330225103432502 15S.32E.04.34242A

Available data for this site SUMMARY OF ALL AVAILABLE DATA ▼ GO

Well Site

DESCRIPTION:

Latitude 33°02'28", Longitude 103°43'21" NAD27 Lea County, New Mexico , Hydrologic Unit 12080003

Well depth: not determined.

Land surface altitude: 4,311.10 feet above NGVD29.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.

Well completed in "Ogallala Formation" (1210GLL) local aguifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1966-03-29	1990-12-06	7
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to <u>New Mexico Water Science Center Water-Data</u> Inquiries

Questions or Comments

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: NWIS Site Information for USA: Site Inventory





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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2024 9:48:38 AM

JOB DESCRIPTION

Chem State #4 Lea Co., NM

JOB NUMBER

880-40929-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 3/29/2024 9:48:38 AM

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

14

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 23

3/29/2024

Released to Imaging: 5/14/2025 3:46:45 PM

•

А

6

9

11

Client: Crain Environmental Project/Site: Chem State #4 Laboratory Job ID: 880-40929-1 SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	22

2

3

A

5

7

9

11

14

Definitions/Glossary

Job ID: 880-40929-1 Client: Crain Environmental Project/Site: Chem State #4 SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Metals

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit **PQL**

PRES Presumptive QC **Quality Control**

RFR Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

Client: Crain Environmental

Project/Site: Chem State #4

SDG: Lea Co., NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

1

3

4

6

8

11

13

Case Narrative

Client: Crain Environmental Project: Chem State #4

Job ID: 880-40929-1

Eurofins Midland Job ID: 880-40929-1

Job Narrative 880-40929-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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
- 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 3/15/2024 2:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (1') (880-40929-1), S-1 ('4.2) (880-40929-2) and T-1 (1') (880-40929-3).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (1') (880-40929-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75817 and analytical batch 880-75778 was outside the upper control 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: The instrument blank/CCB for analytical batch 860-151762 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-151762 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this CCB contained the target compound. The data have been reported.

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

Metals

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

General Chemistry

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

Eurofins Midland

3/29/2024

Client Sample Results

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-40929-1

SDG: Lea Co., NM

Client Sample ID: S-1 (1')

Lab Sample ID: 880-40929-1

Date Collected: 03/12/24 16:40

Date Received: 03/15/24 14:51

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:31	03/20/24 22:26	
Toluene	0.00261		0.00202		mg/Kg		03/18/24 10:31	03/20/24 22:26	•
Ethylbenzene	0.0133		0.00202		mg/Kg		03/18/24 10:31	03/20/24 22:26	,
m-Xylene & p-Xylene	0.0472		0.00403		mg/Kg		03/18/24 10:31	03/20/24 22:26	1
o-Xylene	0.145		0.00202		mg/Kg		03/18/24 10:31	03/20/24 22:26	•
Xylenes, Total	0.192		0.00403		mg/Kg		03/18/24 10:31	03/20/24 22:26	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				03/18/24 10:31	03/20/24 22:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/18/24 10:31	03/20/24 22:26	1
Method: TAL SOP Total BTEX -	· Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.208		0.00403		mg/Kg			03/20/24 22:26	1
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4440		50.0		mg/Kg			03/19/24 03:15	1
- Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	166		50.0		mg/Kg		03/18/24 10:16	03/19/24 03:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	4020		50.0		mg/Kg		03/18/24 10:16	03/19/24 03:15	1
C10-C28) Oll Range Organics (Over	050		50.0		mg/Kg		03/18/24 10:16	03/19/24 03:15	1
C28-C36)	258		50.0		ilig/Kg		03/16/24 10.10	03/19/24 03.13	'
020-000)									
		Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate	%Recovery						00/40/04 40:40	00//0/0/00/00/	
Surrogate 1-Chlorooctane		<u> </u>	70 - 130				03/18/24 10:16	03/19/24 03:15	1
		<u> </u>	70 ₋ 130 70 ₋ 130				03/18/24 10:16	03/19/24 03:15	
1-Chlorooctane	100 91	ohy - Soluble	70 - 130						•
1-Chlorooctane o-Terphenyl	100 91 on Chromatograp	ohy - Soluble Qualifier	70 - 130	MDL	Unit	D			1 1 Dil Fac

Client Sample ID: S-1 ('4.2)

Date Collected: 03/12/24 16:45

Lab Sample ID: 880-40929-2

Matrix: Solid

Date Received: 03/15/24 14:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 22:46	
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 22:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/18/24 10:31	03/20/24 22:46	1
o-Xylene	0.0174		0.00200		mg/Kg		03/18/24 10:31	03/20/24 22:46	1
Xylenes, Total	0.0174		0.00401		mg/Kg		03/18/24 10:31	03/20/24 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130				03/18/24 10:31	03/20/24 22:46	
1.4-Difluorobenzene (Surr)	95		70 ₋ 130				03/18/24 10:31	03/20/24 22:46	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #4

Job ID: 880-40929-1 SDG: Lea Co., NM

Lab Sample ID: 880-40929-2

Matrix: Solid

Date Received: 03/15/24 14:51

Client Sample ID: S-1 ('4.2)

Date Collected: 03/12/24 16:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0174		0.00401		mg/Kg			03/20/24 22:46	1
Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3000		50.1		mg/Kg			03/19/24 03:36	1
Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		03/18/24 10:16	03/19/24 03:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	2820		50.1		mg/Kg		03/18/24 10:16	03/19/24 03:36	1
C10-C28)									
Oll Range Organics (Over	182		50.1		mg/Kg		03/18/24 10:16	03/19/24 03:36	1
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/18/24 10:16	03/19/24 03:36	1
o-Terphenyl	95		70 - 130				03/18/24 10:16	03/19/24 03:36	1
Method: EPA 300.0 - Anions, Io	n Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2890		24.8		mg/Kg			03/19/24 14:40	5

Client Sample ID: T-1 (1')

Date Collected: 03/12/24 16:50

Lab Sample ID: 880-40929-3

Matrix: Solid

Date Received: 03/15/24 14:51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/26/24 17:05	03/28/24 14:12	1
Method: LA 29B SAR - Sodium Ads	orption Rati	io							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	<0.100	U	0.100		NONE		03/24/24 19:38	03/28/24 09:16	1
Exchangeable Sodium Percentage	<0.100	U	0.100		%		03/24/24 19:38	03/28/24 09:16	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9	HF			SU			03/22/24 13:10	1
Temperature (SW846 9045D)	20.5	HF			Deg. C			03/22/24 13:10	1
Electrical Conductivity (SM 2510B)	1.88		0.0100		ds/m			03/27/24 14:02	1

Surrogate Summary

Client: Crain Environmental Job ID: 880-40929-1
Project/Site: Chem State #4 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-40929-1	S-1 (1')	161 S1+	106	
880-40929-2	S-1 ('4.2)	77	95	
LCS 880-75819/1-A	Lab Control Sample	106	118	
LCSD 880-75819/2-A	Lab Control Sample Dup	105	117	
MB 880-75819/5-A	Method Blank	75	93	
Surrogate Legend				
BFB = 4-Bromofluorobenzo	ene (Surr)			
DFBZ = 1,4-Difluorobenze	ne (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-40929-1	S-1 (1')	100	91	
880-40929-2	S-1 ('4.2)	96	95	
LCS 880-75817/2-A	Lab Control Sample	96	114	
LCSD 880-75817/3-A	Lab Control Sample Dup	85	97	
MB 880-75817/1-A	Method Blank	137 S1+	160 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

2

3

5

7

a

4 4

12

13

QC Sample Results

Client: Crain Environmental Job ID: 880-40929-1 SDG: Lea Co., NM Project/Site: Chem State #4

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75819/5-A

Matrix: Solid

Analysis Batch: 76130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75819

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 19:21	•
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 19:21	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 19:21	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 10:31	03/20/24 19:21	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:31	03/20/24 19:21	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 10:31	03/20/24 19:21	

MB MB

Surrogate	%Recovery	Qualifier Lim	nits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 -	130	03/18/24 10:31	03/20/24 19:21	1
1,4-Difluorobenzene (Surr)	93	70 -	. 130	03/18/24 10:31	03/20/24 19:21	1

Lab Sample ID: LCS 880-75819/1-A

Matrix: Solid

Analysis Batch: 76130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75819

	Бріке	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09232	-	mg/Kg		92	70 - 130	
Toluene	0.100	0.1032		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1090		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2215		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1082		mg/Kg		108	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: LCSD 880-75819/2-A

Matrix: Solid

Analysis Batch: 76130

Client Sample ID: Lab Control Sample Dup
--

Prep Type: Total/NA

Prep Batch: 75819

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08343		mg/Kg		83	70 - 130	10	35
Toluene	0.100	0.09664		mg/Kg		97	70 - 130	7	35
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130	4	35
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1.4-Difluorobenzene (Surr)	117		70 - 130

Job ID: 880-40929-1

SDG: Lea Co., NM

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

Lab Sample ID: MB 880-75817/1-A

Matrix: Solid

Analysis Batch: 75778

Client: Crain Environmental Project/Site: Chem State #4

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75817

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/24 10:16	03/18/24 19:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 10:16	03/18/24 19:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 10:16	03/18/24 19:52	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				03/18/24 10:16	03/18/24 19:52	1
o-Terphenyl	160	S1+	70 - 130				03/18/24 10:16	03/18/24 19:52	1

Lab Sample ID: LCS 880-75817/2-A

Matrix: Solid

Analysis Batch: 75778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75817

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits 1000 872.4 87 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 742.7 mg/Kg 74 70 - 130C10-C28)

Limits

LCS LCS %Recovery Qualifier Surrogate

1-Chlorooctane 96 70 - 130 o-Terphenyl 114 70 - 130

Lab Sample ID: LCSD 880-75817/3-A

Matrix: Solid Analysis Batch: 75778 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 75817

LCSD LCSD Spike %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Gasoline Range Organics 1000 873.9 mg/Kg 87 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 765.6 mg/Kg 77 70 - 130 3 20 C10-C28)

LCSD LCSD

Qualifier %Recovery Limits Surrogate 70 - 130 1-Chlorooctane 85 97 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-151711/55-A

Matrix: Solid

Analysis Batch: 151762

Client Sample ID: Method Blank

Prep Type: Total/NA **Prep Batch: 151711**

мв мв Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 03/26/24 17:05 03/28/24 11:37 mg/Kg

QC Sample Results

Client: Crain Environmental Job ID: 880-40929-1 Project/Site: Chem State #4 SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-151711/56-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 151762 **Prep Batch: 151711**

Spike LCS LCS Analyte Added Result Qualifier %Rec Limits Unit Chloride 100 96.28 mg/Kg 96 80 - 120

Lab Sample ID: LCSD 860-151711/57-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 151762** Prep Batch: 151711 Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 100 96.51 mg/Kg 97 80 - 120 0

Lab Sample ID: MB 880-75923/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble Analysis Batch: 75977**

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/19/24 12:00 mg/Kg

Lab Sample ID: LCS 880-75923/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 75977

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 249.1 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-75923/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 75977

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 248.7 mg/Kg 99 90 - 110 20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-151898/2 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151898

MR MR Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed <0.0100 0.0100 **Electrical Conductivity** U ds/m 03/27/24 14:02

Lab Sample ID: 880-40929-3 DU Client Sample ID: T-1 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 151898

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD Limit **Electrical Conductivity** 1.88 1.887 ds/m 0.4 20

QC Association Summary

Client: Crain Environmental Job ID: 880-40929-1
Project/Site: Chem State #4 SDG: Lea Co., NM

GC VOA

Prep Batch: 75819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-40929-1	S-1 (1')	Total/NA	Solid	5035
880-40929-2	S-1 ('4.2)	Total/NA	Solid	5035
MB 880-75819/5-A	Method Blank	Total/NA	Solid	5035
LCS 880-75819/1-A	Lab Control Sample	Total/NA	Solid	5035
LCSD 880-75819/2-A	Lab Control Sample Dup	Total/NA	Solid	5035

Analysis Batch: 76130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-1	S-1 (1')	Total/NA	Solid	8021B	75819
880-40929-2	S-1 ('4.2)	Total/NA	Solid	8021B	75819
MB 880-75819/5-A	Method Blank	Total/NA	Solid	8021B	75819
LCS 880-75819/1-A	Lab Control Sample	Total/NA	Solid	8021B	75819
LCSD 880-75819/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75819

Analysis Batch: 76235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-40929-2	S-1 ('4.2)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 75778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-1	S-1 (1')	Total/NA	Solid	8015B NM	75817
880-40929-2	S-1 ('4.2)	Total/NA	Solid	8015B NM	75817
MB 880-75817/1-A	Method Blank	Total/NA	Solid	8015B NM	75817
LCS 880-75817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75817
LCSD 880-75817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75817

Prep Batch: 75817

Lab Sample ID 880-40929-1	Client Sample ID S-1 (1')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
880-40929-2	S-1 ('4.2)	Total/NA	Solid	8015NM Prep	
MB 880-75817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 76015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-40929-2	S-1 ('4.2)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75923

Released to Imaging: 5/14/2025 3:46:45 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-1	S-1 (1')	Soluble	Solid	DI Leach	
880-40929-2	S-1 ('4.2)	Soluble	Solid	DI Leach	
MB 880-75923/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75923/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75923/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

2

5

8

10

1 1

13

QC Association Summary

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-40929-1 SDG: Lea Co., NM

HPLC/IC

Analysis Batch: 75977

Lab Sample ID 880-40929-1	S-1 (1')	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 75923
880-40929-2	S-1 ('4.2)	Soluble	Solid	300.0	75923
MB 880-75923/1-A	Method Blank	Soluble	Solid	300.0	75923
LCS 880-75923/2-A	Lab Control Sample	Soluble	Solid	300.0	75923
LCSD 880-75923/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75923

Prep Batch: 151711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Total/NA	Solid	300_Prep	
MB 860-151711/55-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-151711/56-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-151711/57-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	

Analysis Batch: 151762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Total/NA	Solid	300.0	151711
MB 860-151711/55-A	Method Blank	Total/NA	Solid	300.0	151711
LCS 860-151711/56-A	Lab Control Sample	Total/NA	Solid	300.0	151711
LCSD 860-151711/57-A	Lab Control Sample Dup	Total/NA	Solid	300.0	151711

Metals

Prep Batch: 151356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Total/NA	Solid	29B	

Prep Batch: 151856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Total/NA	Solid	29B	151356

Analysis Batch: 152058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Total/NA	Solid	29B SAR	151856

General Chemistry

Leach Batch: 151109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 151150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Soluble	Solid	9045D	151109

Leach Batch: 151802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Soluble	Solid	DI Leach	
880-40929-3 DU	T-1 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 151898

_					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40929-3	T-1 (1')	Soluble	Solid	SM 2510B	151802

QC Association Summary

Client: Crain Environmental Job ID: 880-40929-1
Project/Site: Chem State #4 SDG: Lea Co., NM

General Chemistry (Continued)

Analysis Batch: 151898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-151898/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 860-151898/3	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCSD 860-151898/4	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	
880-40929-3 DU	T-1 (1')	Soluble	Solid	SM 2510B	151802

3

4

5

9

10

Client: Crain Environmental
Project/Site: Chem State #4

Job ID: 880-40929-1 SDG: Lea Co., NM

Lab Sample ID: 880-40929-1

Matrix: Solid

Client Sample ID: S-1 (1')
Date Collected: 03/12/24 16:40
Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	75819	03/18/24 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76130	03/20/24 22:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76235	03/20/24 22:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			76015	03/19/24 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75817	03/18/24 10:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75778	03/19/24 03:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75923	03/18/24 15:32	SA	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	75977	03/19/24 14:34	CH	EET MID

Client Sample ID: S-1 ('4.2)

Lab Sample ID: 880-40929-2

Date Collected: 03/12/24 16:45

Matrix: Solid

Date Received: 03/15/24 14:51

Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	75819	03/18/24 10:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76130	03/20/24 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76235	03/20/24 22:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			76015	03/19/24 03:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	75817	03/18/24 10:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75778	03/19/24 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	75923	03/18/24 15:32	SA	EET MIC
Soluble	Analysis	300.0		5	10 mL	10 mL	75977	03/19/24 14:40	CH	EET MIC

Client Sample ID: T-1 (1')

Date Collected: 03/12/24 16:50

Lab Sample ID: 880-40929-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	151711	03/26/24 17:05	HN	EET HOU
Total/NA	Analysis	300.0		1			151762	03/28/24 14:12	RBNS	EET HOU
Total/NA	Prep	29B			45 g	40 g	151356	03/24/24 19:38	AGR	EET HOU
Total/NA	Prep	29B			30.51 g	30 mL	151856	03/27/24 10:35	AGR	EET HOU
Total/NA	Analysis	29B SAR		1			152058	03/28/24 09:16	JDM	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	151109	03/22/24 10:06	BW	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	151150	03/22/24 13:10	BW	EET HOU
Soluble	Leach	DI Leach			30 g	30 mL	151802	03/27/24 08:23	BW	EET HOU
Soluble	Analysis	SM 2510B		1			151898	03/27/24 14:02	BW	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-40929-1 Project/Site: Chem State #4 SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF)	T104704400-23-26	06-30-24
The following analytes	are included in this report, bu	t the laboratory is not certif	ied by the governing authority. This list	may include analytes
,	oes not offer certification.	•	, , ,	,
for which the agency do Analysis Method 8015 NM		Matrix Solid	Analyte Total TPH	

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-40929-1 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 HOU
300.0	Anions, Ion Chromatography	EPA	EET MID
29B SAR	Sodium Adsorption Ratio	LA	EET HOU
9045D	pH	SW846	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
29B	Preparation, Dry, Grind and Sieve	LA	EET HOU
29B	Preparation, Sodium Absorption Ratio	LA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

LA = Statewide Order No. 29-B, State Of Louisianna

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

5

7

8

10

ш

13

Sample Summary

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-40929-1

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-40929-1	S-1 (1')	Solid	03/12/24 16:40	03/15/24 14:51
880-40929-2	S-1 ('4.2)	Solid	03/12/24 16:45	03/15/24 14:51
880-40929-3	T-1 (1')	Solid	03/12/24 16:50	03/15/24 14:51

Received by OCD: 3/31/2025 12:48:18 PM



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



																			00-4092	es Cha	in of Cust	oay	
Project Manager		rain			Bill to: (if	f differen	t)		hris	5 6	n Dadd	1			٦ [****	Work O	rder Co	omments		
Company Name:			mental		Compan	y Name		1	Octa	ne C	s nece	iv			T P	rogram	: US	/PST [PRP		wnfields	RRC□	Superfund
Address:	2925 C.	17+	<u>SI.</u>		Address	***		3		1. W	all	Ste	. 30	20	_		Project:	N.			h-		
City, State ZIP	Odessa,	TX	79761		City, Stat	te ZIP·				nd.	TX	-	976	01	R	eportir	g Lev	el II 🗌	Level II	ı 🗌 ı	PST/UST 🗍	TRRP	Level IV
Phone:	(575) 44	1-72	estal	Email	Ci	ndy. C	rain								- 1	elivera		EDD			РТ 🗌	Other	-
Project Name	Chem S	ate 4	± 4	Turn	Around					, , , , , , , , , , , , , , , , , , ,	.,,		ANAL	YSIS REC	UEST						Pres	ervative (Codes
Project Number	-			Routine	Rush	1	Pres. Code										T			1	None NO		Ol Water H ₂ O
Project Location	Lea Co.	VM		Due Date:																†	Cool Coo		MeOH Me
Sampler's Name:	Lindy C	rain		TAT starts the																	HCL. HC		INO 3 HN
PO#				the lab, if rec	eived by 4:	30pm															H₂SO₄ H		NaOH Na
SAMPLE RECEIPT	Temp t	llank:	Yes No	Wet Ice:	Yes	No	Parameters														H₃PO₄ H	-	
Samples Received Inta	ict: (Pes	No	Thermomete	er ID:	TW	8	ame	7													NaHSO 4		
Cooler Custody Seals.	Yes No	A/A	Correction F	actor	10)	Za.	15M		8)											Na ₂ S ₂ O ₃		
Sample Custody Seals	Yes No	N/A/	Temperatur	e Reading:	3	3]	801		10/								-			Zn Acetai	-	7n
Total Containers.			Corrected To	emperature:	3:	7]		以	ler,		\circ	Q								NaOH+As		
Sample Identi	ification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	MAL	BTEX	Chlaride	EC	SAR	E5.	Hd							San	nple Com	ments
5-1 ())	5	3/12/24	1640	1'	1	17	$\overline{\mathbf{x}}$	$\overline{}$	$\overline{}$					_		_	\dashv	_	+	<u> </u>		
5-174	1.21)	5	3/12/24	1445	4.2'	2	 			\Longrightarrow							_		_	+	 		
T-1 ()	•)	15	3/12/24	1650	11	C	12			\Longrightarrow			>					-		╁──	 		
			7,62,5									\hookrightarrow			$\neg \uparrow$			-		+-			
																				1			
	***************************************																					-	
																						····	
							<u> </u>																
Total 200.7 / 601	0 200.8/	5020:	81	RCRA 13PF	M Texa	as 11	Al Sb	As B	a Be	B Cd	Ca C	r Co	Cu F	e Pb N	Λα M	n Mo	Ni K	Se A	ı SıO.	Na Sr	TI Sn II	V 7n	
Circle Method(s)	and Metal(s) to	be ana	alyzed	TCLP/S	PLP 6010	9 8RC	CRA S	b As	Ba Be	Cd (îr Co	Cu P	b Mn	Mo N	i Se /	n mo	J				/7470 /		
Notice: Signature of this doc	ument and relinquishn	ent of sam	oles constitutes a	valid purchase ord	ler from clien	nt compan	y to Eurof	ins Xenco	o. its affil	ates and	subconti	actors l	t assigns	standard t	erms an	1 conditio	ne						
of service. Eurofins Xenco w of Eurofins Xenco. A minimu	fill be liable only for the	cost of sam	ples and shall not	assume any respo	nsibility for a	any losses :	or expens	es incum	ed by th	client if	such loss	as are di	ie to circ	umetancer	howand	the cente	ai .						
Relinguished by	(Signature)		Re € eived l	oy: (Signatur	e)		Ī .	Date/	Time		Rel	inquis	hed b	y: (Sign	ature)		Re	ceive	d by (Sig	nature	e)	Date	/Time
1 Linder	sair)			V		**************************************	3	15	24		2	Ban Turing	O-2-17-17-17-17-17-17-17-17-17-17-17-17-17-		** · · · · · · · · · · · · · · · · · ·				× ****				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3							1	11U	51		4		***************************************										
5		1					T	1 -1			6												

- 2 8 4 1 9 7 8 6 7 1 3

Eurofins Midland

1211 W Florida Ave Midland, TX 79701 Phone: 432-704-5440

Chain of Custody Record



eurofins

Environment Testing

3/29/2024

Page 21 of 23

Released to Imaging: 5/14/2025 3:46:45 PM

Ver: 06/08/2021

FIIONE: 432-704-3440																			
Client Information (Sub Contract Lab)	Sampler			Lab Pr Kram		Jessi	ica					Ça	mier T	racking	No(s):			COC No: 880-9583 1	
Client Contact Shipping/Receiving	Phone:			E-Mail Jessi		írami	er@	eteu	rofins	sus.c	om		te of 0	Origin:				Page: Page 1 of 1	·
Company:	· '				Accre	editati		Require										Job #:	
Eurofins Environment Testing South Centr Address:	Due Date Request	ed:			NEL	АР	rex	kas								-		880-40929-1 Preservation Code	es.
4145 Greenbriar Dr	3/21/2024									Ana	alysis	Reque	ste	d				A HCI	M Hexane
City Stafford	TAT Requested (d	ays):					İ											C Zn Acetate	N None Q AsNaO2 P Na2O4S
State, Zip: TX, 77477	l					١	<u>ş</u>		:	nalytee							-	I ← NAHSCIA	Q Na2SO3 R Na2S2O3
Phone: 281-240-4200(Tel)	PO #:				6	, , , , , , , , , , , , , , , , , , , ,	duct		'	РΑ								G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
Email:	WO #:				N TO	ĝ :	al Con		₽ <u>9</u>	0							92	Ice	U Acetone V MCAA W pH 4-5
Project Name: Chern State #4	Project # 88001917				9	o i	ectric	1	S	<u>S</u>							containers	K EDIA	Y Trizma Z other (specify)
Site:	SSOW#:				gu V	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Š	4 Z	를 6	နို								Other	2 Other (specify)
	 	1	1		d Sa	<u> </u>	를	를 달	[C/28]	e		1					er of		
Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Type (C=comp, o	/latrix /v=water, S¤solid, rwaste/ol Lasue, A=Atr)	Field Fill(ere	Perform MIS/MSD (Yes	2510B/DI_Leach_WC Electrical Conductivity	9045D/DI_LEACH_NP	29B_SAR_Calc/29B_Prep_Solid	29B_ESP/29B_Prep_Solid (MOD) Copy Analytee							Total Number	Special Ins	structions/Note:
		**OLL!	Preservation	Code:	\boxtimes	\times			_			3	1		*		$oldsymbol{ imes}$	9 h	
T 1 (1') (880-40929-3)	3/12/24	16:50 Central		Solid		:	х	x :	x .	x							2		1
										П									
	1		 -		H		\top		\top	\top	1						9	He	369
					П	Ť	1		1	1	1-		T						2.6
																			2.6
					П														7
					П		1												
					П				7	Т				T-				:	
Note: Since laboratory accreditations are subject to change, Eurofins Environm laboratory does not currently maintain accreditation in the State of Origin isted accreditation status should be brought to Eurofins Environment Testing South C	above for analysis/tes	ts/matrix being	analyzed, the sam	oles must be	e ship	oped b	back 1	to the i	Eurofi	ins En	vironmer	nt Testing	South	Centr	I LLC I	aborator	y or oth	ner instructions will be p	provided. Any changes to
Possible Hazard Identification					5						ee may				-	s are r	etaine	ed longer than 1 n	nonth)
Unconfirmed					ــــــــــــــــــــــــــــــــــــــ			tum 1						By La	ab		Archi	ive For	_ Months
Deliverable Requested: I, II III IV Other (specify)	Primary Deliver	able Rank:	2		١	Spec	iai ir	nstruc	ctions	s/QC	Requir	ements:							
Empty Kit Relinquished by		Date.			Tim	e.							Me	thod c	f Shipm	ent:			
Relinquished by:	Date/Time:		Con	рапу		R	Receiv	ved by:	:	\sim	.1				Date/	Time:			Company
Relinquished by:	Date/Time:		Con	pany		R	Receiv	ved by:		$\overline{\Sigma}$	15				Date	771	012	149:13	Company
Relinquished by:	Date/Time:		Con	рапу		R	Receiv	ved by	- (/	· .				Date	Time:		· · · · · · · · · · · · · · · · · · ·	Company
Custody Seals Intact: Custody Seal No.	1					c	Cooler	r Temp	eratu	re(s) ^c	C and O	ther Rema	rks:					- · · · · · · · · · · · · · · · · · · ·	

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-40929-1

SDG Number: Lea Co., NM

Login Number: 40929 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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	

3

4

6

8

10

12

3/29/2024

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-40929-1 SDG Number: Lea Co., NM

Login Number: 40929 **List Source: Eurofins Houston** List Number: 2 List Creation: 03/16/24 11:42 AM

Creator: Baker, Jeremiah

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/2/2024 4:48:37 PM

JOB DESCRIPTION

Chem State #4 Lea Co., NM

JOB NUMBER

880-49104-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/2/2024 4:48:37 PM

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

_

4

5

6

<u>۾</u>

9

1 1

14

Client: Crain Environmental Project/Site: Chem State #4

Laboratory Job ID: 880-49104-1 SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

2

3

4

6

0

9

10

12

16

Definitions/Glossary

Client: Crain Environmental

Project/Site: Chem State #4

SDG: Lea Co., NM

Qualifiers

GC VOA Qualifier

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 S1+
 Surrogate recovery exceeds control limits, high biased.

1

HPLC/IC

J 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

Indicates the analyte was analyzed for but not detected.

%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: Chem State #4

Job ID: 880-49104-1

Eurofins Midland Job ID: 880-49104-1

Job Narrative 880-49104-1

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 9/27/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-92118 and analytical batch 880-92214 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 880-91963 and analytical batch 880-92182 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-91963/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-92182 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-92182/48).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-92041 and analytical batch 880-92279 was outside the upper control limits.

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 Job ID: 880-49104-1 Project/Site: Chem State #4 SDG: Lea Co., NM

Client Sample ID: S-1 (4.5') Lab Sample ID: 880-49104-1

Date Collected: 09/26/24 12:30 Matrix: Solid Date Received: 09/27/24 13:45

Sample Depth: 4.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
Ethylbenzene	< 0.00201	U F1	0.00201		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		09/30/24 11:06	10/01/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/24 11:06	10/01/24 13:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/24 11:06	10/01/24 13:29	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 13:29	1
Method: SW846 8015 NM - Diese	al Pango Organ	ice (DRO) ((3C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/01/24 05:18	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(CC)						
			(GC)						
Analyte	•	Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	•	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 09/27/24 15:27	Analyzed 10/01/24 05:18	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL		<u>D</u>	<u> </u>		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8	Qualifier U	RL 49.8	MDL	mg/Kg	<u>D</u>	09/27/24 15:27	10/01/24 05:18	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U U	49.8 49.8	MDL	mg/Kg mg/Kg	<u>D</u>	09/27/24 15:27 09/27/24 15:27	10/01/24 05:18 10/01/24 05:18	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U	49.8 49.8 49.8	MDL	mg/Kg mg/Kg	<u>D</u>	09/27/24 15:27 09/27/24 15:27 09/27/24 15:27	10/01/24 05:18 10/01/24 05:18 10/01/24 05:18	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.8 <49.8 <49.8 <49.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80.8 <80	Qualifier U U U	49.8 49.8 49.8 <i>Limits</i>	MDL	mg/Kg mg/Kg	<u>D</u>	09/27/24 15:27 09/27/24 15:27 09/27/24 15:27 <i>Prepared</i>	10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 Analyzed	1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8 <49.8 <49.8 <49.8 <49.8 <60	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg	<u> </u>	09/27/24 15:27 09/27/24 15:27 09/27/24 15:27 Prepared 09/27/24 15:27	10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 Analyzed 10/01/24 05:18	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg mg/Kg	<u>D</u>	09/27/24 15:27 09/27/24 15:27 09/27/24 15:27 Prepared 09/27/24 15:27	10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 10/01/24 05:18 Analyzed 10/01/24 05:18	1 1 1 1 1 Dil Fac

Client Sample ID: S-2 (0-4') Lab Sample ID: 880-49104-2 Date Collected: 09/26/24 12:35 Matrix: Solid

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/30/24 11:06	10/01/24 13:49	

Job ID: 880-49104-1

SDG: Lea Co., NM

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

Client: Crain Environmental Project/Site: Chem State #4

Date Collected: 09/26/24 12:35 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Lab Sample ID: 880-49104-2

Lab Sample ID: 880-49104-3

Matrix: Solid

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/30/24 11:06 1,4-Difluorobenzene (Surr) 104 10/01/24 13:49

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00399 0.00399 10/01/24 13:49 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.7 U 49.7 10/01/24 05:32 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.7 U mg/Kg Gasoline Range Organics 49.7 09/27/24 15:27 10/01/24 05:32 (GRO)-C6-C10 <49.7 U 49.7 09/27/24 15:27 10/01/24 05:32 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <49.7 U 49.7 mg/Kg 09/27/24 15:27 10/01/24 05:32

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 81 70 - 130 09/27/24 15:27 10/01/24 05:32 87 70 - 130 09/27/24 15:27 10/01/24 05:32 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 24.8 10/01/24 18:56 Chloride 3710 mg/Kg

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

Date Collected: 09/26/24 12:40

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

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 09/30/24 11:06 10/01/24 14:10 Toluene <0.00199 U 0.00199 09/30/24 11:06 10/01/24 14:10 mg/Kg Ethylbenzene <0.00199 U 0.00199 09/30/24 11:06 10/01/24 14:10 mg/Kg 10/01/24 14:10 m-Xylene & p-Xylene <0.00398 U 0.00398 09/30/24 11:06 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 09/30/24 11:06 10/01/24 14:10 Xylenes, Total <0.00398 U 0.00398 mg/Kg 09/30/24 11:06 10/01/24 14:10

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 113 70 - 130 09/30/24 11:06 4-Bromofluorobenzene (Surr) 10/01/24 14:10 1,4-Difluorobenzene (Surr) 102 70 - 130 09/30/24 11:06 10/01/24 14:10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 10/01/24 14:10 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 10/01/24 05:47 mg/Kg

Job ID: 880-49104-1

mg/Kg

09/27/24 15:27

10/01/24 05:47

Client: Crain Environmental Project/Site: Chem State #4 SDG: Lea Co., NM

Client Sample ID: S-3 (0-4') Date Collected: 09/26/24 12:40

Date Received: 09/27/24 13:45 Sample Depth: 0-4'

Lab Sample ID: 880-49104-3 Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Dil Fac Analyte RL Unit D Prepared Analyzed <50.0 U 50.0 09/27/24 15:27 10/01/24 05:47 Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/01/24 05:47 Diesel Range Organics (Over <50.0 U 50.0 09/27/24 15:27 mg/Kg C10-C28)

%Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 70 - 130 1-Chlorooctane 09/27/24 15:27 10/01/24 05:47 77 o-Terphenyl 83 70 - 130 09/27/24 15:27 10/01/24 05:47

50.0

<50.0 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL Unit D Dil Fac RL Prepared Analyzed Chloride 825 25.3 mg/Kg 10/01/24 19:01

Client Sample ID: S-4 (0-4') Lab Sample ID: 880-49104-4 Date Collected: 09/26/24 12:45 Matrix: Solid

Date Received: 09/27/24 13:45

Oil Range Organics (Over C28-C36)

Sample Depth: 0-4'

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00201 U 0.00201 09/30/24 11:06 10/01/24 14:30 Benzene mg/Kg <0.00201 0.00201 10/01/24 14:30 Toluene mg/Kg 09/30/24 11:06 Ethylbenzene <0.00201 U 0.00201 09/30/24 11:06 10/01/24 14:30 mg/Kg <0.00402 U 0.00402 09/30/24 11:06 10/01/24 14:30 m-Xylene & p-Xylene mg/Kg 0.00201 09/30/24 11:06 10/01/24 14:30 o-Xylene <0.00201 U ma/Ka Xylenes, Total <0.00402 U 0.00402 mg/Kg 09/30/24 11:06 10/01/24 14:30 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate

4-Bromofluorobenzene (Surr) 107 70 - 130 09/30/24 11:06 10/01/24 14:30 103 1,4-Difluorobenzene (Surr) 70 - 130 09/30/24 11:06 10/01/24 14:30

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac <0.00402 U Total BTEX 0.00402 10/01/24 14:30 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.9 10/01/24 06:01 **Total TPH** 112 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Gasoline Range Organics <49.9 U 49.9 mg/Kg 09/27/24 15:27 10/01/24 06:01 (GRO)-C6-C10 10/01/24 06:01 **Diesel Range Organics (Over** 112 49.9 mg/Kg 09/27/24 15:27 C10-C28) 10/01/24 06:01 Oil Range Organics (Over C28-C36) <49 9 U 49 9 mg/Kg 09/27/24 15:27

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 09/27/24 15:27 1-Chlorooctane 77 70 - 13010/01/24 06:01 84 09/27/24 15:27 o-Terphenyl 70 - 130 10/01/24 06:01

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #4

Job ID: 880-49104-1 SDG: Lea Co., NM

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

Date Collected: 09/26/24 12:45 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Lab Sample ID: 880-49104-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		25.1		mg/Kg			10/01/24 19:06	5

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

Date Collected: 09/26/24 12:50

Lab Sample ID: 880-49104-5

Matrix: Solid

Date Collected: 09/26/24 12:50 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				09/30/24 11:06	10/01/24 14:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/30/24 11:06	10/01/24 14:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 14:51	1
_									

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/01/24 06:16	1

Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		09/27/24 15:27	10/01/24 06:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/27/24 15:27	10/01/24 06:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/27/24 15:27	10/01/24 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				09/27/24 15:27	10/01/24 06:16	1

	1-Chlorooctane	80	70 - 130	09/27/24 15:27	10/01/24 06:16	1
	o-Terphenyl	85	70 - 130	09/27/24 15:27	10/01/24 06:16	1
Ì	Mathed FDA 000 0 Autom	and the contract of the contra	-			

Method: EPA 300.0 - Anions, ion C	nromatograp	ny - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2240		25.0		mg/Kg			10/01/24 19:12	5

Client Sample ID: Stockpile 1

Date Collected: 09/26/24 12:55

Date Received: 09/27/24 13:45

Lab Sample ID: 880-49104-6

Matrix: Solid

– Method: SW846 8021B - Volatile Or	rganic Comp	ounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:11	1

Eurofins Midland

2

6

7

a

10

13

Job ID: 880-49104-1

SDG: Lea Co., NM

Client Sample ID: Stockpile 1

Client: Crain Environmental

Project/Site: Chem State #4

Lab Sample ID: 880-49104-6 Date Collected: 09/26/24 12:55 Date Received: 09/27/24 13:45

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:11	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:11	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 15:11	
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:11	,
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 15:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				09/30/24 11:06	10/01/24 15:11	
1,4-Difluorobenzene (Surr)	103		70 - 130				09/30/24 11:06	10/01/24 15:11	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 15:11	1
	•	ics (DRO) (0 Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/01/24 22:27	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier Unics (DRO)	RL 49.9			<u>D</u>		10/01/24 22:27	
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9		mg/Kg	=	Prepared Prepared 09/29/24 20:31		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg	=	Prepared	10/01/24 22:27 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 09/29/24 20:31	10/01/24 22:27 Analyzed 10/01/24 22:27	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/29/24 20:31 09/29/24 20:31	10/01/24 22:27 Analyzed 10/01/24 22:27 10/01/24 22:27	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/01/24 22:27 10/01/24 22:27 10/01/24 22:27 10/01/24 22:27	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/29/24 20:31 09/29/24 20:31 09/29/24 20:31 Prepared	Analyzed 10/01/24 22:27 Analyzed 10/01/24 22:27 10/01/24 22:27 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/29/24 20:31 09/29/24 20:31 09/29/24 20:31 Prepared 09/29/24 20:31	Analyzed 10/01/24 22:27 Analyzed 10/01/24 22:27 10/01/24 22:27 Analyzed 10/01/24 22:27	1

Client Sample ID: Stockpile 2 Lab Sample ID: 880-49104-7 Date Collected: 09/26/24 13:00 **Matrix: Solid**

5.01

mg/Kg

28.6

Date Received: 09/27/24 13:45

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/30/24 11:06	10/01/24 15:32	1
1,4-Difluorobenzene (Surr)	104		70 ₋ 130				09/30/24 11:06	10/01/24 15:32	1

Eurofins Midland

10/02/24 08:34

Client Sample Results

Client: Crain Environmental Project/Site: Chem State #4

Chloride

Job ID: 880-49104-1

10/01/24 19:18

SDG: Lea Co., NM

Lab Sample ID: 880-49104-7 Client Sample ID: Stockpile 2 Date Collected: 09/26/24 13:00

Matrix: Solid

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total BTEX	<0.00402		0.00402		mg/Kg		Tropulou	10/01/24 15:32	
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			10/01/24 23:12	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8		49.8 49.8		mg/Kg mg/Kg		09/29/24 20:31 09/29/24 20:31	10/01/24 23:12 10/01/24 23:12	
,	\49.0								
Oil Range Organics (Over C28-C36) Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Oil Range Organics (Over C28-C36)		Qualifier	Limits 70 - 130				Prepared 09/29/24 20:31	Analyzed 10/01/24 23:12	Dil Fa

4.97

mg/Kg

29.6

Surrogate Summary

Client: Crain Environmental Job ID: 880-49104-1 Project/Site: Chem State #4 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49104-1	S-1 (4.5')	117	102	
880-49104-1 MS	S-1 (4.5')	101	102	
880-49104-1 MSD	S-1 (4.5')	106	101	
880-49104-2	S-2 (0-4')	103	104	
880-49104-3	S-3 (0-4')	113	102	
880-49104-4	S-4 (0-4')	107	103	
880-49104-5	S-5 (0-4')	105	104	
880-49104-6	Stockpile 1	106	103	
880-49104-7	Stockpile 2	108	104	
LCS 880-92118/1-A	Lab Control Sample	105	100	
LCSD 880-92118/2-A	Lab Control Sample Dup	101	103	
MB 880-92118/5-A	Method Blank	103	99	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49104-1	S-1 (4.5')	78	85	
880-49104-2	S-2 (0-4')	81	87	
880-49104-3	S-3 (0-4')	77	83	
880-49104-4	S-4 (0-4')	77	84	
880-49104-5	S-5 (0-4')	80	85	
880-49104-6	Stockpile 1	102	99	
880-49104-6 MS	Stockpile 1	105	95	
380-49104-6 MSD	Stockpile 1	109	98	
380-49104-7	Stockpile 2	100	98	
_CS 880-91963/2-A	Lab Control Sample	117	113	
_CS 880-92041/2-A	Lab Control Sample	112	110	
LCSD 880-91963/3-A	Lab Control Sample Dup	133 S1+	130	
LCSD 880-92041/3-A	Lab Control Sample Dup	126	127	
MB 880-91963/1-A	Method Blank	65 S1-	71	
	Method Blank	145 S1+	143 S1+	

OTPH = o-Terphenyl

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-49104-1 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92118/5-A

Lab Sample ID: LCS 880-92118/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 92214

Analysis Batch: 92214

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92118

	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 13:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/30/24 11:	06 10/01/24 13:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/30/24 11:	06 10/01/24 13:07	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92118

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09254 mg/Kg 93 70 - 130 Toluene 0.100 0.08706 mg/Kg 87 70 - 130 0.100 0.08786 Ethylbenzene mg/Kg 88 70 - 130 0.200 0.1884 94 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09428 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 92214

Lab Sample ID: LCSD 880-92118/2-A

Prep Type: Total/NA Prep Batch: 92118 %Rec

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08638		mg/Kg		86	70 - 130	7	35
Toluene	0.100	0.08080		mg/Kg		81	70 - 130	7	35
Ethylbenzene	0.100	0.08134		mg/Kg		81	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1756		mg/Kg		88	70 - 130	7	35
o-Xylene	0.100	0.08855		mg/Kg		89	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-49104-1 MS

Matrix: Solid

Analysis Batch: 92214

Client Sample ID: S-1 (4.5') Prep Type: Total/NA

Prep Batch: 92118

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00201	U F1	0.100	0.08091		mg/Kg	_	81	70 - 130	
١	Toluene	<0.00201	U F1	0.100	0.07584		mg/Kg		76	70 - 130	

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-49104-1

SDG: Lea Co., NM

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

Lab Sample ID: 880-49104-1 MS

Matrix: Solid

Analysis Batch: 92214

Client Sample ID: S-1 (4.5') Prep Type: Total/NA

Prep Batch: 92118

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00201	U F1	0.100	0.07607		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1642		mg/Kg		82	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.08178		mg/Kg		82	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Client Sample ID: S-1 (4.5')

Prep Type: Total/NA

Prep Batch: 92118

Lab Sample ID: 880-49104-1 MSD **Matrix: Solid**

Analysis Batch: 92214

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.100	0.06464	F1	mg/Kg		65	70 - 130	22	35
Toluene	<0.00201	U F1	0.100	0.06142	F1	mg/Kg		61	70 - 130	21	35
Ethylbenzene	<0.00201	U F1	0.100	0.06260	F1	mg/Kg		63	70 - 130	19	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1348	F1	mg/Kg		67	70 - 130	20	35
o-Xylene	<0.00201	U F1	0.100	0.06860	F1	mg/Kg		69	70 - 130	18	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-91963/1-A

Matrix: Solid

Analysis Batch: 92182

Client Sample ID: Method	l Blank
Prep Type: To	otal/NA

Prep Batch: 91963

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	09/27/24 15:27	10/01/24 00:05	1
o-Terphenyl	71		70 - 130	09/27/24 15:27	10/01/24 00:05	1

Lab Sample ID: LCS 880-91963/2-A

Matrix: Solid

Analysis Batch: 92182

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

Prep Batch: 91963

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1060		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1075		mg/Kg		107	70 - 130	
C10-C28)								

Job ID: 880-49104-1

SDG: Lea Co., NM

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

LCS LCS

Lab Sample ID: LCS 880-91963/2-A

Matrix: Solid

Analysis Batch: 92182

Client: Crain Environmental

Project/Site: Chem State #4

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91963

%Recovery Qualifier Surrogate

Limits 1-Chlorooctane 117 70 - 130 o-Terphenyl 113 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 91963

Lab Sample ID: LCSD 880-91963/3-A **Matrix: Solid**

Analysis Batch: 92182

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1169		mg/Kg		117	70 - 130	10	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1215		mg/Kg		122	70 - 130	12	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	130		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92041

MB MB

Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mç	g/Kg		09/29/24 20:31	10/01/24 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg	g/Kg		09/29/24 20:31	10/01/24 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mç	g/Kg		09/29/24 20:31	10/01/24 21:43	1
	МВ	МВ							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	09/29/24 20:31	10/01/24 21:43	1
o-Terphenyl	143	S1+	70 - 130	09/29/24 20:31	10/01/24 21:43	1

Lab Sample ID: LCS 880-92041/2-A

Lab Sample ID: MB 880-92041/1-A

Matrix: Solid

Analysis Batch: 92279

Matrix: Solid

Analysis Batch: 92279

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

Prep Batch: 92041

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	974.6		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1135		mg/Kg		113	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Job ID: 880-49104-1 Client: Crain Environmental Project/Site: Chem State #4 SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92041/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 92279** Prep Batch: 92041 Spike LCSD LCSD RPD Limit RPD Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1086 mg/Kg 109 70 - 130 11 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1297 mg/Kg 130 70 - 130 13

C10-C28)

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: 880-49104-6 MS Client Sample ID: Stockpile 1

Matrix: Solid

Analysis Batch: 92279

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	<49.9	U	991	869.1		mg/Kg		88	70 - 130	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	<49.9	U	991	877.5		mg/Kg		89	70 - 130	
ı	C10-C28)										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-49104-6 MSD

Matrix: Solid				Prep Type:	Total/NA
Analysis Batch: 92279				Prep Batc	h: 92041
	Sample Sample	Spike	MSD MSD	%Rec	RPD

Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 991 908.1 92 Gasoline Range Organics 70 - 130 20 mg/Kg (GRO)-C6-C10 <49.9 U 991 919.2 93 70 - 130 20 Diesel Range Organics (Over mg/Kg 5 C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92121/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 92165

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/01/24 16:41	1

Client Sample ID: Stockpile 1

Prep Type: Total/NA

Prep Batch: 92041

QC Sample Results

Client: Crain Environmental

Project/Site: Chem State #4

SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-92121/2-A

Matrix: Solid

Analysis Batch: 92165

Client Sample ID: Lab Control Sample

Prep Type: Soluble

 Analyte
 Added Chloride
 Result 250
 Qualifier LCS LCS
 Unit Mag/Kg
 D Mag/Kg
 MRec Limits Limits

Lab Sample ID: LCSD 880-92121/3-A

Matrix: Solid

Analysis Batch: 92165

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

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 251.3 mg/Kg 101 90 - 110 0 20

3

4

6

7

8

9

11

13

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-49104-1

SDG: Lea Co., NM

GC VOA

Prep Batch: 92118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	5035	
880-49104-2	S-2 (0-4')	Total/NA	Solid	5035	
880-49104-3	S-3 (0-4')	Total/NA	Solid	5035	
880-49104-4	S-4 (0-4')	Total/NA	Solid	5035	
880-49104-5	S-5 (0-4')	Total/NA	Solid	5035	
880-49104-6	Stockpile 1	Total/NA	Solid	5035	
880-49104-7	Stockpile 2	Total/NA	Solid	5035	
MB 880-92118/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92118/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92118/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49104-1 MS	S-1 (4.5')	Total/NA	Solid	5035	
880-49104-1 MSD	S-1 (4.5')	Total/NA	Solid	5035	

Analysis Batch: 92214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	8021B	92118
880-49104-2	S-2 (0-4')	Total/NA	Solid	8021B	92118
880-49104-3	S-3 (0-4')	Total/NA	Solid	8021B	92118
880-49104-4	S-4 (0-4')	Total/NA	Solid	8021B	92118
880-49104-5	S-5 (0-4')	Total/NA	Solid	8021B	92118
880-49104-6	Stockpile 1	Total/NA	Solid	8021B	92118
880-49104-7	Stockpile 2	Total/NA	Solid	8021B	92118
MB 880-92118/5-A	Method Blank	Total/NA	Solid	8021B	92118
LCS 880-92118/1-A	Lab Control Sample	Total/NA	Solid	8021B	92118
LCSD 880-92118/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92118
880-49104-1 MS	S-1 (4.5')	Total/NA	Solid	8021B	92118
880-49104-1 MSD	S-1 (4.5')	Total/NA	Solid	8021B	92118

Analysis Batch: 92386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	Total BTEX	
880-49104-2	S-2 (0-4')	Total/NA	Solid	Total BTEX	
880-49104-3	S-3 (0-4')	Total/NA	Solid	Total BTEX	
880-49104-4	S-4 (0-4')	Total/NA	Solid	Total BTEX	
880-49104-5	S-5 (0-4')	Total/NA	Solid	Total BTEX	
880-49104-6	Stockpile 1	Total/NA	Solid	Total BTEX	
880-49104-7	Stockpile 2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 91963

Released to Imaging: 5/14/2025 3:46:45 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	8015NM Prep	
880-49104-2	S-2 (0-4')	Total/NA	Solid	8015NM Prep	
880-49104-3	S-3 (0-4')	Total/NA	Solid	8015NM Prep	
380-49104-4	S-4 (0-4')	Total/NA	Solid	8015NM Prep	
380-49104-5	S-5 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-91963/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91963/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

__

Client: Crain Environmental

Project/Site: Chem State #4

SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 92041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-6	Stockpile 1	Total/NA	Solid	8015NM Prep	
880-49104-7	Stockpile 2	Total/NA	Solid	8015NM Prep	
MB 880-92041/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92041/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49104-6 MS	Stockpile 1	Total/NA	Solid	8015NM Prep	
880-49104-6 MSD	Stockpile 1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	8015B NM	91963
880-49104-2	S-2 (0-4')	Total/NA	Solid	8015B NM	91963
880-49104-3	S-3 (0-4')	Total/NA	Solid	8015B NM	91963
880-49104-4	S-4 (0-4')	Total/NA	Solid	8015B NM	91963
880-49104-5	S-5 (0-4')	Total/NA	Solid	8015B NM	91963
MB 880-91963/1-A	Method Blank	Total/NA	Solid	8015B NM	91963
LCS 880-91963/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91963
LCSD 880-91963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91963

Analysis Batch: 92273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Total/NA	Solid	8015 NM	
880-49104-2	S-2 (0-4')	Total/NA	Solid	8015 NM	
880-49104-3	S-3 (0-4')	Total/NA	Solid	8015 NM	
880-49104-4	S-4 (0-4')	Total/NA	Solid	8015 NM	
880-49104-5	S-5 (0-4')	Total/NA	Solid	8015 NM	
880-49104-6	Stockpile 1	Total/NA	Solid	8015 NM	
880-49104-7	Stockpile 2	Total/NA	Solid	8015 NM	

Analysis Batch: 92279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-6	Stockpile 1	Total/NA	Solid	8015B NM	92041
880-49104-7	Stockpile 2	Total/NA	Solid	8015B NM	92041
MB 880-92041/1-A	Method Blank	Total/NA	Solid	8015B NM	92041
LCS 880-92041/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92041
LCSD 880-92041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92041
880-49104-6 MS	Stockpile 1	Total/NA	Solid	8015B NM	92041
880-49104-6 MSD	Stockpile 1	Total/NA	Solid	8015B NM	92041

HPLC/IC

Leach Batch: 92121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Soluble	Solid	DI Leach	
880-49104-2	S-2 (0-4')	Soluble	Solid	DI Leach	
880-49104-3	S-3 (0-4')	Soluble	Solid	DI Leach	
880-49104-4	S-4 (0-4')	Soluble	Solid	DI Leach	
880-49104-5	S-5 (0-4')	Soluble	Solid	DI Leach	
880-49104-6	Stockpile 1	Soluble	Solid	DI Leach	
880-49104-7	Stockpile 2	Soluble	Solid	DI Leach	
MB 880-92121/1-A	Method Blank	Soluble	Solid	DI Leach	

Client: Crain Environmental Job ID: 880-49104-1 Project/Site: Chem State #4 SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 92121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-92121/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92121/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 92165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49104-1	S-1 (4.5')	Soluble	Solid	300.0	92121
880-49104-2	S-2 (0-4')	Soluble	Solid	300.0	92121
880-49104-3	S-3 (0-4')	Soluble	Solid	300.0	92121
880-49104-4	S-4 (0-4')	Soluble	Solid	300.0	92121
880-49104-5	S-5 (0-4')	Soluble	Solid	300.0	92121
880-49104-6	Stockpile 1	Soluble	Solid	300.0	92121
880-49104-7	Stockpile 2	Soluble	Solid	300.0	92121
MB 880-92121/1-A	Method Blank	Soluble	Solid	300.0	92121
LCS 880-92121/2-A	Lab Control Sample	Soluble	Solid	300.0	92121
LCSD 880-92121/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92121

Job ID: 880-49104-1 SDG: Lea Co., NM

Project/Site: Chem State #4

Client: Crain Environmental

Lab Sample ID: 880-49104-1

Matrix: Solid

Client Sample ID: S-1 (4.5') Date Collected: 09/26/24 12:30

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 13:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 13:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 05:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 05:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		10			92165	10/01/24 18:50	CH	EET MID

Client Sample ID: S-2 (0-4') Lab Sample ID: 880-49104-2

Date Collected: 09/26/24 12:35 Matrix: Solid

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 13:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 05:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 05:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		5			92165	10/01/24 18:56	CH	EET MID

Client Sample ID: S-3 (0-4') Lab Sample ID: 880-49104-3 Date Collected: 09/26/24 12:40 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 14:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 05:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 05:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		5			92165	10/01/24 19:01	CH	EET MID

Client Sample ID: S-4 (0-4') Lab Sample ID: 880-49104-4

Date Collected: 09/26/24 12:45 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 14:30	SM	EET MID

Eurofins Midland

Matrix: Solid

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-49104-1 SDG: Lea Co., NM

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

Date Collected: 09/26/24 12:45 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49104-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92273	10/01/24 06:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 06:01	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		5			92165	10/01/24 19:06	CH	EET MID

Lab Sample ID: 880-49104-5

Client Sample ID: S-5 (0-4') Date Collected: 09/26/24 12:50 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 14:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 06:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 06:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		5			92165	10/01/24 19:12	CH	EET MID

Client Sample ID: Stockpile 1 Lab Sample ID: 880-49104-6 Date Collected: 09/26/24 12:55 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 15:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92041	09/29/24 20:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92279	10/01/24 22:27	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/02/24 08:34	CH	EET MID

Lab Sample ID: 880-49104-7 Client Sample ID: Stockpile 2

Date Collected: 09/26/24 13:00 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 15:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92386	10/01/24 15:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			92273	10/01/24 23:12	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10.00 mL 1 uL	92041 92279	09/29/24 20:31 10/01/24 23:12	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

Lab Chronicle

Client: Crain Environmental Job ID: 880-49104-1 Project/Site: Chem State #4 SDG: Lea Co., NM

Client Sample ID: Stockpile 2 Lab Sample ID: 880-49104-7 Date Collected: 09/26/24 13:00

Matrix: Solid

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 19:18	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: 880-49104-1
Project/Site: Chem State #4 SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400	06-30-25
• ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

2

3

4

6

9

4 4

12

4 /

Method Summary

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-49104-1

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: Chem State #4 Job ID: 880-49104-1

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49104-1	S-1 (4.5')	Solid	09/26/24 12:30	09/27/24 13:45	4.5'
880-49104-2	S-2 (0-4')	Solid	09/26/24 12:35	09/27/24 13:45	0-4'
880-49104-3	S-3 (0-4')	Solid	09/26/24 12:40	09/27/24 13:45	0-4'
880-49104-4	S-4 (0-4')	Solid	09/26/24 12:45	09/27/24 13:45	0-4'
880-49104-5	S-5 (0-4')	Solid	09/26/24 12:50	09/27/24 13:45	0-4'
880-49104-6	Stockpile 1	Solid	09/26/24 12:55	09/27/24 13:45	
880-49104-7	Stockpile 2	Solid	09/26/24 13:00	09/27/24 13:45	

Chain of Custody

Environment Testing Xenco

Yes (No

Date

Sampled

9/21/24

Thermometer ID:

Correction Factor:

Temperature Reading:

Corrected Temperature:

eurofins

Project Manager:

Company Name:

City, State ZIP:

Project Name:

Project Number:

Project Location:

Sampler's Name:

SAMPLE RECEIPT

Cooler Custody Seals:

Sample Custody Seals:

5-2 (0-4.

5-3 10-4.

5-4 (0.4)

Total 200.7 / 6010

Sample Identification

Total Containers:

Samples Received Intact:

Address:

Phone:

PO #:

Sindy Grain

Crain Environmental

adessa, TX 79761

2925 E. 17th St.

(575) 441-7244

Men State #4

Temp Blank:

Yes No

Yes No N/A

200.8 / 6020:

N/A

Matrix

Yes No

Lindy Crain

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

Phris Grandy

310 W. Wall. Ste. 300

Midland, TX 79701

Bill to: (if different)

Company Name:

City, State ZIP:

Cindy, crain@amail. com

Pres.

Code

Address:

Rush

Yes No

- 1

Depth

4.5'

0-4'

0-4' 0-4 Grab/

of

Cont Comp

Email:

Routine

Due Date:

Wet Ice:

Time

Sampled

1255 1300

1230

1235 0-4'

Turn Around

TAT starts the day received by the lab, if received by 4:30pm

M	
	880-49104 Chain of Custody

www.xenco.com **Work Order Comments** Program: UST/PST PRP Brownfields RRC State of Project: Reporting: Level II Level III PST/UST TRRP Level IV Deliverables: EDD ADaPT Other: **ANALYSIS REQUEST Preservative Codes** None: NO DI Water: H₂O Cool: Cool MeOH: Me HCL: HC HNO a: HN H2SO4: H2 NaOH: Na H₃PO ₄: HP NaHSO 4: NABIS Na,S,O3: NaSO 3 Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC **Sample Comments** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471

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 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 Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) 127/24 Revised Date: 08/25/2020 Rev. 2020 2







Received by OCD: 3/31/2025 12:48:18 PM

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-49104-1

SDG Number: Lea Co., NM

Login Number: 49104 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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	

oj 191

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/17/2025 2:42:13 PM Revision 2

JOB DESCRIPTION

Chem State #4 Lea Co. NM

JOB NUMBER

880-50851-2

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 2/17/2025 2:42:13 PM Revision 2

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

_

0

7

_

10

13

Client: Crain Environmental
Project/Site: Chem State #4

Laboratory Job ID: 880-50851-2 SDG: Lea Co. NM

Table of Contents

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

2

3

4

0

8

10

40

13

Definitions/Glossary

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-50851-2

SDG: Lea Co. NM

OL

Qualifiers

GC Semi VOA Qualifier

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*1 LCS/LCSD RPD exceeds control limits.

Qualifier Description

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

HPLC/IC

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: Chem State #4

Job ID: 880-50851-2

Job ID: 880-50851-2 Eurofins Midland

Job Narrative 880-50851-2

REVISION

The report being provided is a revision of the original report sent on 11/25/2024. The report (revision 2) is being revised due to Per client email, requesting sample time correction.

Report revision history

Revision 1 - 2/17/2025 - Reason - Incorrect COC attached. revision needed.

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 11/8/2024 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Diesel Range Organics

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

HPLC/IC

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

Eurofins Midland

1

2

3

4

5

7

10

12

16

Ш

11/08/24 14:13 11/12/24 21:17

11/08/24 14:13 11/12/24 21:17

Client: Crain Environmental Job ID: 880-50851-2 Project/Site: Chem State #4 SDG: Lea Co. NM

Client Sample ID: S-2 (0-4.5') Lab Sample ID: 880-50851-13

Date Collected: 11/04/24 11:25 Matrix: Solid Date Received: 11/08/24 13:35

Sample Depth: 0-4.5'

Diesel Range Organics (Over

	Method: SW846 8015 NM - Diesel	Range	Organics (DRO) (GC)						
ı	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0		mg/Kg			11/12/24 21:17	1
	Method: SW846 8015B NM - Dies	_	_	. , , ,	MDI	1114	_	Danie and	Anabasad	DUE.
ı	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ı	Gasoline Range Organics	<50.0	U *+	50.0		mg/Kg		11/08/24 14:13	11/12/24 21:17	1
ı	(GRO)-C6-C10									

C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/08/24 14:13 11/12/24 21:17 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 11/08/24 14:13 11/12/24 21:17 1-Chlorooctane 71 70 - 130

70 - 130

50.0

mg/Kg

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac Chloride 387 10.0 mg/Kg 11/12/24 03:34

Client Sample ID: S-3 (0-4.5') Lab Sample ID: 880-50851-14

<50.0 U *1

71

Date Collected: 11/04/24 11:30 **Matrix: Solid**

Date Received: 11/08/24 13:35

Sample Depth: 0-4.5'

o-Terphenyl

Method: SW846 8015 NM - Die	sel Range (Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 21:32	1
									

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Unit RL Prepared Analyzed Dil Fac Gasoline Range Organics <49.8 U *+ 49.8 11/08/24 14:13 11/12/24 21:32 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U *1 49.8 mg/Kg 11/08/24 14:13 11/12/24 21:32 C10-C28) Oil Range Organics (Over C28-C36) <49.8 U 49.8 11/08/24 14:13 11/12/24 21:32 mg/Kg

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	11/08/24 14:13	11/12/24 21:32	1
o-Terphenyl	84		70 - 130	11/08/24 14:13	11/12/24 21:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640		50.4		mg/Kg			11/12/24 03:53	5

Client Sample ID: S-4 (0-4.5') Lab Sample ID: 880-50851-15 Matrix: Solid

Date Collected: 11/04/24 11:35

Date Received: 11/08/24 13:35 Sample Depth: 0-4.5'

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/12/24 21:48	1

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-50851-15

Lab Sample ID: 880-50851-16

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-50851-2

SDG: Lea Co. NM

Client Sample ID: S-4 (0-4.5')

Date Collected: 11/04/24 11:35 Date Received: 11/08/24 13:35

Sample Depth: 0-4.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *+	50.0		mg/Kg		11/08/24 14:13	11/12/24 21:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/08/24 14:13	11/12/24 21:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:13	11/12/24 21:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	41	S1-	70 - 130				11/08/24 14:13	11/12/24 21:48	1
o-Terphenyl	43	S1-	70 - 130				11/08/24 14:13	11/12/24 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		50.3		mg/Kg			11/12/24 04:00	5

Client Sample ID: S-5 (0-4.5')

Date Collected: 11/04/24 11:40

Date Received: 11/08/24 13:35

Sample Depth: 0-4.5'

Method: SW846 8015 NM - D						_			
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	r	mg/Kg			11/12/24 22:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		11/08/24 14:13	11/12/24 22:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		11/08/24 14:13	11/12/24 22:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/08/24 14:13	11/12/24 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				11/08/24 14:13	11/12/24 22:03	1
o-Terphenyl	81		70 - 130				11/08/24 14:13	11/12/24 22:03	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		10.1		mg/Kg			11/12/24 04:06	1

Eurofins Midland

2

3

4

_

8

1 N

12

Surrogate Summary

Client: Crain Environmental Job ID: 880-50851-2
Project/Site: Chem State #4 SDG: Lea Co. NM

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		1CO1	OTPH1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
880-50851-13	S-2 (0-4.5')	71	71					
880-50851-14	S-3 (0-4.5')	84	84					
880-50851-15	S-4 (0-4.5')	41 S1-	43 S1-					
880-50851-16	S-5 (0-4.5')	81	81					
LCS 880-95275/2-A	Lab Control Sample	155 S1+	137 S1+					
LCSD 880-95275/3-A	Lab Control Sample Dup	122	107					
MB 880-95275/1-A	Method Blank	74	75					

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental Job ID: 880-50851-2 Project/Site: Chem State #4 SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95275/1-A

Matrix: Solid

Analysis Batch: 95561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95275

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/24 14:13	11/12/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/24 14:13	11/12/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:13	11/12/24 10:10	1
	MD	MD							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	11/08/24 14:13	11/12/24 10:10	1
o-Terphenyl	75		70 - 130	11/08/24 14:13	11/12/24 10:10	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 95275

Lab Sample ID: LCS 880-95275/2-A **Matrix: Solid Analysis Batch: 95561** LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit Limits D %Rec 1000 1456 *+ 146 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1200 120 mg/Kg 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	137	S1+	70 - 130

Lab Sample ID: LCSD 880-95275/3-A

Matrix: Solid

Analysis Batch: 95430

Released to Imaging: 5/14/2025 3:46:45 PM

Analysis Batch: 95561

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

Prep Batch: 95275

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1266		mg/Kg	<u> </u>	127	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	942.8	*1	mg/Kg		94	70 - 130	24	20

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	122	70 - 130
o-Terphenyl	107	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-95413/1-A **Client Sample ID: Method Blank Matrix: Solid**

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 11/12/24 03:14 mg/Kg

Lab Sample ID: LCS 880-95413/2-A

Lab Sample ID: LCSD 880-95413/3-A

QC Sample Results

Client: Crain Environmental Job ID: 880-50851-2 Project/Site: Chem State #4 SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: Lab Control Sample

Prep Type: Soluble

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits D %Rec Chloride 250 261.4 mg/Kg 105 90 - 110

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 95430

Analysis Batch: 95430

Matrix: Solid

Matrix: Solid

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 250 270.5 90 - 110 Chloride mg/Kg 108

Lab Sample ID: 880-50851-13 MS Client Sample ID: S-2 (0-4.5')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 95430

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Chloride 387 251 632.0 90 - 110 mg/Kg

Lab Sample ID: 880-50851-13 MSD Client Sample ID: S-2 (0-4.5') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 95430

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 387 251 637.6 mg/Kg 100 90 - 110

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-50851-2

SDG: Lea Co. NM

GC Semi VOA

Prep Batch: 95275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-13	S-2 (0-4.5')	Total/NA	Solid	8015NM Prep	
880-50851-14	S-3 (0-4.5')	Total/NA	Solid	8015NM Prep	
880-50851-15	S-4 (0-4.5')	Total/NA	Solid	8015NM Prep	
880-50851-16	S-5 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-95275/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-95275/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-95275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 95561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-13	S-2 (0-4.5')	Total/NA	Solid	8015B NM	95275
880-50851-14	S-3 (0-4.5')	Total/NA	Solid	8015B NM	95275
880-50851-15	S-4 (0-4.5')	Total/NA	Solid	8015B NM	95275
880-50851-16	S-5 (0-4.5')	Total/NA	Solid	8015B NM	95275
MB 880-95275/1-A	Method Blank	Total/NA	Solid	8015B NM	95275
LCS 880-95275/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	95275
LCSD 880-95275/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	95275

Analysis Batch: 95605

Lab Sample ID 880-50851-13	Client Sample ID S-2 (0-4.5')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
880-50851-14	S-3 (0-4.5')	Total/NA	Solid	8015 NM	
880-50851-15	S-4 (0-4.5')	Total/NA	Solid	8015 NM	
880-50851-16	S-5 (0-4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 95413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-13	S-2 (0-4.5')	Soluble	Solid	DI Leach	
880-50851-14	S-3 (0-4.5')	Soluble	Solid	DI Leach	
880-50851-15	S-4 (0-4.5')	Soluble	Solid	DI Leach	
880-50851-16	S-5 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-95413/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-95413/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-95413/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50851-13 MS	S-2 (0-4.5')	Soluble	Solid	DI Leach	
880-50851-13 MSD	S-2 (0-4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 95430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-13	S-2 (0-4.5')	Soluble	Solid	300.0	95413
880-50851-14	S-3 (0-4.5')	Soluble	Solid	300.0	95413
880-50851-15	S-4 (0-4.5')	Soluble	Solid	300.0	95413
880-50851-16	S-5 (0-4.5')	Soluble	Solid	300.0	95413
MB 880-95413/1-A	Method Blank	Soluble	Solid	300.0	95413
LCS 880-95413/2-A	Lab Control Sample	Soluble	Solid	300.0	95413
LCSD 880-95413/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	95413
880-50851-13 MS	S-2 (0-4.5')	Soluble	Solid	300.0	95413
880-50851-13 MSD	S-2 (0-4.5')	Soluble	Solid	300.0	95413

Eurofins Midland

2

Л

6

8

9

11

13

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-50851-14

Lab Sample ID: 880-50851-15

Lab Sample ID: 880-50851-16

Lab Sample ID: 880-50851-13

Client Sample ID: S-2 (0-4.5') Date Collected: 11/04/24 11:25

Date Received: 11/08/24 13:35

Client: Crain Environmental

Project/Site: Chem State #4

Batch Batch Dil Batch Initial Final Prepared Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Number Analyst Lab Total/NA 8015 NM 95605 11/12/24 21:17 SM Analysis **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 95275 11/08/24 14:13 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 95561 11/12/24 21:17 TKC **EET MID** Soluble Leach DI Leach 4.98 g 50 mL 95413 11/11/24 11:56 SA **EET MID** Soluble 300.0 50 mL 50 mL 95430 11/12/24 03:34 CH Analysis **EET MID**

Client Sample ID: S-3 (0-4.5')

Date Collected: 11/04/24 11:30 Date Received: 11/08/24 13:35

Prep Type Total/NA	Batch Type Analysis	Batch Method 8015 NM	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 95605	Prepared or Analyzed 11/12/24 21:32	Analyst SM	Lab EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g 1 uL	10 mL 1 uL	95275 95561	11/08/24 14:13 11/12/24 21:32		EET MID EET MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		5	4.96 g 50 mL	50 mL 50 mL	95413 95430	11/11/24 11:56 11/12/24 03:53	SA CH	EET MID EET MID

Client Sample ID: S-4 (0-4.5')

Date Collected: 11/04/24 11:35 Date Received: 11/08/24 13:35

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			95605	11/12/24 21:48	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	95275 95561	11/08/24 14:13 11/12/24 21:48		EET MID EET MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		5	4.97 g 50 mL	50 mL 50 mL	95413 95430	11/11/24 11:56 11/12/24 04:00	SA CH	EET MID EET MID

Client Sample ID: S-5 (0-4.5')

Date Collected: 11/04/24 11:40 Date Received: 11/08/24 13:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	95275	11/08/24 14:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95561	11/12/24 22:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	95413	11/11/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95430	11/12/24 04:06	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: 880-50851-2

Project/Site: Chem State #4

SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF	•	T104704400	06-30-25
0 ,		•	not certified by the governing authori	ity. This list may include analy
0 ,	s are included in this repo does not offer certification	•	not certified by the governing authori	ity. This list may include analy
0 ,		•	not certified by the governing authori Analyte	ity. This list may include analyi

2

3

4

6

8

10

12

4 /

Method Summary

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-50851-2

SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-50851-2 SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-50851-13	S-2 (0-4.5')	Solid	11/04/24 11:25	11/08/24 13:35	0-4.5'
880-50851-14	S-3 (0-4.5')	Solid	11/04/24 11:30	11/08/24 13:35	0-4.5'
880-50851-15	S-4 (0-4.5')	Solid	11/04/24 11:35	11/08/24 13:35	0-4.5'
880-50851-16	S-5 (0-4.5')	Solid	11/04/24 11:40	11/08/24 13:35	0-4.5'

4

7

8

10

11

13

2/17/2025 (Rev. 2)

eurofins	Environment Testing
	Yenco

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:	Work	Order	No:					
----------------	------	-------	-----	--	--	--	--	--

																V	vww.xenco	o.com P	age/	ot
Project Manager:	Cindy	Crair	1		Bill to: (if	different	:)	0	nris	Gada	y						Work Or	der Comme	nts	
Company Name:	Crain &	oviva	omenta	1	Company	Name:		10	ctan	e				Prog	gram:	UST/PST	PRP	Brownfield	s RRC	Superfund
Address:	2925 €.	17+	54.		Address:		- 5-11	310	W.	Wall S	ote.	300		Stat	e of Proje	ect: N	M			
City, State ZIP:	Odessa,	TX	79761		City, State	e ZIP:				d, TX				Rep	orting:	Level II	Level III	PST/US	T TRRI	Level IV
Phone:	(575)4				Cind	y.cc	ain			. com				Deli	verables	EDD		ADaPT 🗌	Other	
Project Name:	Chen St	ate #	4	Turn	Around							ANALY	SIS REC	QUEST					Preservat	ve Codes
Project Number:	_			Routine	Rush		Pres. Code											None	: NO	DI Water: H ₂ O
Project Location:	Lea Co. 1	MM		Due Date:														Cool:	Cool	MeOH: Me
Sampler's Name: PO #:	Cindy Cre	ain		TAT starts the														HCL: H ₂ S0		HNO 3: HN NaOH: Na
SAMPLE RECEIPT	Temp B	lank:	Yes No	Wet Ice:	Yes	No	ters											H ₃ PC		
Samples Received Inta		No	Thermometer		IR-8		Parameters	-										100	O 4: NABIS	
Cooler Custody Seals:		N/A	Correction F	actor:	-0		Par	8015M	S									Na ₂ S	2O3: NaSO	3
Sample Custody Seals	: Yes No	N/A	Temperatur	e Reading:	3.3			0	10									Zn Ad	etate+NaC	OH: Zn
Total Containers:		U	Corrected To	emperature:	3	.2			- 67									NaOl	l+Ascorbic	Acid: SAPC
Sample Ident	ification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	M	Chlorides										Sample C	omments
5-2 (0-	4.5)	5	11/4/24	1125	0.45	C	1	\times	\times											
5-3 (0.	4.5.)			1130	1															
5-4 (0	-4.5)			1135																
5-5 (0.	4.5.)	V	1	1140	1	1	1	V	V											
						-														
															-					
											-									
								-												
											-									
Total 200.7 / 601 Circle Method(s)				TCLP/S						B Cd Ca Cd Cr C				-			-	la Sr Tl Sr 245.1 / 747		
Notice Cianature of this doc				-11.4	6N		A - F	V	the e OCI			h a salama a	stondond t		n distance					

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for each sample service in 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.

Relinguished by: (8) gnature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
(inch ligin	J Kramer	11/08/2024	1335		
			4		
			6	×	





Page 109 of 191

Received by OCD: 3/31/2025 12:48:18 PM

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-50851-2 SDG Number: Lea Co. NM

Login Number: 50851 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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

2

3

4

5

6

8

1 0

13

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/26/2024 4:02:14 PM

JOB DESCRIPTION

Chem State #4

JOB NUMBER

880-52510-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 12/26/2024 4:02:14 PM

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

19

13

Client: Crain Environmental

Project/Site: Chem State #4

Laboratory Job ID: 880-52510-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receint Checklists	20

Definitions/Glossary

Client: Crain Environmental Job ID: 880-52510-1 Project/Site: Chem State #4

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

ğ 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

Duplicate Error Ratio (normalized absolute difference) **DER**

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

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**

Presumptive **PRES** 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: Chem State #4

Job ID: 880-52510-1

Eurofins Midland Job ID: 880-52510-1

Job Narrative 880-52510-1

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 12/19/2024 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-3 (0-4.5') (880-52510-1) and S-5 (0-4.5') (880-52510-3). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

Client Sample ID: S-3 (0-4.5')

Lab Sample ID: 880-52510-1

Date Collected: 12/18/24 11:00 Matrix: Solid
Date Received: 12/19/24 13:52

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 14:32	
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 14:32	•
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 14:32	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 14:32	
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 14:32	•
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 14:32	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		70 - 130				12/20/24 14:34	12/21/24 14:32	•
1,4-Difluorobenzene (Surr)	94		70 - 130				12/20/24 14:34	12/21/24 14:32	•
Method: TAL SOP Total BTEX	. Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/21/24 14:32	•
Method: SW846 8015 NM - Di	_					_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0								
-	\50.0	U	50.0		mg/Kg			12/24/24 05:00	
: Method: SW846 8015B NM - D					mg/Kg			12/24/24 05:00	
Analyte	Diesel Range			MDL	mg/Kg Unit	 D	Prepared	12/24/24 05:00 Analyzed	Dil Fac
Analyte Gasoline Range Organics	Diesel Range	Organics Qualifier	(DRO) (GC)	MDL		<u>D</u>	Prepared 12/23/24 15:01		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	Organics Qualifier	(DRO) (GC)	MDL	Unit	<u>D</u>	12/23/24 15:01	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result <50.0	e Organics Qualifier U	(DRO) (GC) RL 50.0	MDL	Unit mg/Kg	D	12/23/24 15:01 12/23/24 15:01	Analyzed 12/24/24 05:00	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Diesel Range Result <50.0	Qualifier U Qualifier	5 (DRO) (GC) RL 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/23/24 15:01 12/23/24 15:01 12/23/24 15:01 Prepared	Analyzed 12/24/24 05:00 12/24/24 05:00 12/24/24 05:00 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate		e Organics Qualifier U	50.0 (GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/23/24 15:01 12/23/24 15:01 12/23/24 15:01	Analyzed 12/24/24 05:00 12/24/24 05:00 12/24/24 05:00	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Name	Qualifier U Qualifier	5 (DRO) (GC) RL 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/23/24 15:01 12/23/24 15:01 12/23/24 15:01 Prepared 12/23/24 15:01	Analyzed 12/24/24 05:00 12/24/24 05:00 12/24/24 05:00 Analyzed	Dil Fac
Method: SW846 8015B NM - EANalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions,	Name	Qualifier U U Qualifier S1-	5 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/23/24 15:01 12/23/24 15:01 12/23/24 15:01 Prepared 12/23/24 15:01	Analyzed 12/24/24 05:00 12/24/24 05:00 12/24/24 05:00 Analyzed 12/24/24 05:00	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Name	Qualifier U U Qualifier S1-	5 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	12/23/24 15:01 12/23/24 15:01 12/23/24 15:01 Prepared 12/23/24 15:01	Analyzed 12/24/24 05:00 12/24/24 05:00 12/24/24 05:00 Analyzed 12/24/24 05:00	Dil Fac

Client Sample ID: S-4 (0-4.5')

Lab Sample ID: 880-52510-2

Date Collected: 12/18/24 11:05 Date Received: 12/19/24 13:52

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/24 14:34	12/21/24 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				12/20/24 14:34	12/21/24 14:52	1

Eurofins Midland

Matrix: Solid

2

3

4

6

e S

10

Client: Crain Environmental

Job ID: 880-52510-1

Project/Site: Chem State #4

Client Sample ID: S-4 (0-4.58') Lab Sample ID: 880-52510-2

Date Collected: 12/18/24 11:05 Matrix: Solid

Date Received: 12/19/24 13:52 Sample Depth: 0 - 4.5

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

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 12/20/24 14:34 12/21/24 14:52 70 - 130 1,4-Difluorobenzene (Surr)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00403 U 0.00403 mg/Kg 12/21/24 14:52

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

Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 12/24/24 05:20

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

Result Qualifier **MDL** Unit D Dil Fac Analyte Prepared Analyzed <49.9 U 49.9 12/23/24 15:01 12/24/24 05:20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 12/23/24 15:01 12/24/24 05:20 C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 12/23/24 15:01 12/24/24 05:20 mg/Kg

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 70 - 130 1-Chlorooctane 71 12/23/24 15:01 12/24/24 05:20 o-Terphenyl 74 70 - 130 12/23/24 15:01 12/24/24 05:20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride 86.5 10.0 12/24/24 17:37 mg/Kg

Client Sample ID: S-5 (0-4.5')

Date Collected: 12/18/24 11:10 Date Received: 12/19/24 13:52

Sample Depth: 0 - 4.5

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

MDL Unit Analyte Result Qualifier RI D Prepared Dil Fac Analyzed Benzene < 0.00200 U 0.00200 mg/Kg 12/20/24 14:34 12/21/24 15:13 Toluene <0.00200 U 0.00200 mg/Kg 12/20/24 14:34 12/21/24 15:13 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/20/24 14:34 12/21/24 15:13 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 12/20/24 14:34 12/21/24 15:13 o-Xylene <0.00200 U 0.00200 mg/Kg 12/20/24 14:34 12/21/24 15:13 Xylenes, Total <0.00399 U 0.00399 mg/Kg 12/20/24 14:34 12/21/24 15:13

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 12/20/24 14:34 4-Bromofluorobenzene (Surr) 87 12/21/24 15:13 1,4-Difluorobenzene (Surr) 97 70 - 130 12/20/24 14:34 12/21/24 15:13

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 12/21/24 15:13

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

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 12/24/24 05:40

Eurofins Midland

Lab Sample ID: 880-52510-3

Matrix: Solid

Client Sample Results

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

Client Sample ID: S-5 (0-4.5')

Date Collected: 12/18/24 11:10 Date Received: 12/19/24 13:52

Sample Depth: 0 - 4.5

Chloride

Lab	Sample	ID:	880-525	10-3
-----	--------	-----	---------	------

V	Campic	ID.	000-020	, 10-0
			Matrix:	Solid

12/24/24 17:43

Method: SW846 8015B NM - D Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 05:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 05:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/23/24 15:01	12/24/24 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				12/23/24 15:01	12/24/24 05:40	1
o-Terphenyl	64	S1-	70 - 130				12/23/24 15:01	12/24/24 05:40	1
- Method: EPA 300.0 - Anions, I	on Chroma	tography	- Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

10.1

mg/Kg

82.1

Surrogate Summary

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-52510-1	S-3 (0-4.5')	87	94	
880-52510-2	S-4 (0-4.5')	87	98	
380-52510-3	S-5 (0-4.5')	87	97	
_CS 880-98490/1-A	Lab Control Sample	109	118	
_CSD 880-98490/2-A	Lab Control Sample Dup	117	107	
MB 880-98440/5-A	Method Blank	78	94	
MB 880-98490/5-A	Method Blank	81	91	

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)					
		1CO1	OTPH1				
_ab Sample ID	Client Sample ID	(70-130)	(70-130)				
380-52510-1	S-3 (0-4.5')	69 S1-	72				
380-52510-2	S-4 (0-4.5')	71	74				
380-52510-3	S-5 (0-4.5')	62 S1-	64 S1-				
CS 880-98721/2-A	Lab Control Sample	78	75				
CSD 880-98721/3-A	Lab Control Sample Dup	91	87				
MB 880-98721/1-A	Method Blank	77	85				

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98440/5-A

Matrix: Solid

Analysis Batch: 98345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98440

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	78	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

12/20/24 09:23 12/20/24 21:40 12/20/24 09:23 12/20/24 21:40

Analyzed

Prepared

Client Sample ID: Method Blank Lab Sample ID: MB 880-98490/5-A **Matrix: Solid**

Analysis Batch: 98345

Prep Type: Total/NA Prep Batch: 98490

MB MB Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Benzene 12/20/24 14:34 12/21/24 08:19 <0.00200 U 0.00200 mg/Kg Toluene mg/Kg 12/20/24 14:34 12/21/24 08:19 <0.00200 U 0.00200 Ethylbenzene mg/Kg <0.00200 U 0.00200 12/20/24 14:34 12/21/24 08:19 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/20/24 14:34 12/21/24 08:19 o-Xylene <0.00200 U 0.00200 mg/Kg 12/20/24 14:34 12/21/24 08:19 12/20/24 14:34 12/21/24 08:19 Xylenes, Total <0.00400 U 0.00400 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	12/20/24 14:34	12/21/24 08:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/20/24 14:34	12/21/24 08:19	1

Lab Sample ID: LCS 880-98490/1-A

Matrix: Solid

Analysis Batch: 98345

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 98490

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1160		mg/Kg		116	70 - 130	
0.100	0.1140		mg/Kg		114	70 - 130	
0.100	0.1187		mg/Kg		119	70 - 130	
0.200	0.2351		mg/Kg		118	70 - 130	
0.100	0.1149		mg/Kg		115	70 - 130	
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.1160 0.100 0.1140 0.100 0.1187 0.200 0.2351	Added Result Qualifier 0.100 0.1160 0.100 0.1140 0.100 0.1187 0.200 0.2351	Added Result Qualifier Unit 0.100 0.1160 mg/Kg 0.100 0.1140 mg/Kg 0.100 0.1187 mg/Kg 0.200 0.2351 mg/Kg	Added Result Qualifier Unit D 0.100 0.1160 mg/Kg 0.100 0.1140 mg/Kg 0.100 0.1187 mg/Kg 0.200 0.2351 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1160 mg/Kg 116 0.100 0.1140 mg/Kg 114 0.100 0.1187 mg/Kg 119 0.200 0.2351 mg/Kg 118	Added Result Qualifier Unit D %Rec Limits 0.100 0.1160 mg/Kg 116 70 - 130 0.100 0.1140 mg/Kg 114 70 - 130 0.100 0.1187 mg/Kg 119 70 - 130 0.200 0.2351 mg/Kg 118 70 - 130

LCS LCS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	118	70 - 130

Lab Sample ID: LCSD 880-98490/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 98345							Prep E	Batch: 9	3 8490
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1195		mg/Kg		120	70 - 130	3	35

Eurofins Midland

Dil Fac

QC Sample Results

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

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

Lab Sample ID: LCSD 880-98490/2-A **Matrix: Solid**

Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 98490

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0 100 0.1153 mg/Kg 115 70 - 130 35 1 0.100 Ethylbenzene 0.1280 mg/Kg 128 70 - 1308 35 0.200 0.2529 mg/Kg 126 70 - 130 7 35 m-Xylene & p-Xylene 0.100 35 o-Xylene 0.1237 mg/Kg 124 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-98721/1-A

Matrix: Solid

Analysis Batch: 98591

MB MB

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98721

Analyzed Analyte Result Qualifier RL **MDL** Unit Prepared Dil Fac 50.0 12/23/24 15:01 12/23/24 21:11 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 12/23/24 15:01 12/23/24 21:11 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/23/24 15:01 12/23/24 21:11

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	12/23/24 15:01	12/23/24 21:11	1
o-Terphenyl	85		70 - 130	12/23/24 15:01	12/23/24 21:11	1

Lab Sample ID: LCS 880-98721/2-A

Matrix: Solid

Analysis Batch: 98591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98721

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit D %Rec 1000 70 - 130 Gasoline Range Organics 721.6 72 mg/Kg (GRO)-C6-C10 1000 822.8 82 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: LCSD 880-98721/3-A

Released to Imaging: 5/14/2025 3:46:45 PM

Matrix: Solid

Analysis Batch: 98591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98721

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	 1000	769.0		mg/Kg		77	70 - 130	6	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	893.6		mg/Kg		89	70 - 130	8	20	
C10-C28)										

Client: Crain Environmental Job ID: 880-52510-1

Project/Site: Chem State #4

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

Lab Sample ID: LCSD 880-98721/3-A

Matrix: Solid

Analysis Batch: 98591

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

Prep Batch: 98721

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98551/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 98576

MB MB

RL Analyte Result Qualifier **MDL** Unit Prepared Analyzed Dil Fac 10.0 12/24/24 15:39 Chloride <10.0 U mg/Kg

Lab Sample ID: LCS 880-98551/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 98576

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

Lab Sample ID: LCSD 880-98551/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 98576

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 250 90 - 110 Chloride 265.1 mg/Kg 106

Lab Sample ID: 880-52510-1 MS **Client Sample ID: S-3 (0-4.5') Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 98576

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 248 334.9 109 90 - 110 Chloride 64.6 mg/Kg

Lab Sample ID: 880-52510-1 MSD **Client Sample ID: S-3 (0-4.5')**

Matrix: Solid

Analysis Batch: 98576

Released to Imaging: 5/14/2025 3:46:45 PM

Sample Sample Spike MSD MSD %Rec **RPD** Added Result Qualifier Limits RPD **Analyte** Result Qualifier Unit %Rec Limit Chloride 64.6 248 334.9 109 90 - 110 20 mg/Kg

Eurofins Midland

Prep Type: Soluble

QC Association Summary

Client: Crain Environmental Job ID: 880-52510-1
Project/Site: Chem State #4

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Total/NA	Solid	8021B	98490
880-52510-2	S-4 (0-4.5')	Total/NA	Solid	8021B	98490
880-52510-3	S-5 (0-4.5')	Total/NA	Solid	8021B	98490
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
MB 880-98490/5-A	Method Blank	Total/NA	Solid	8021B	98490
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	8021B	98490
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98490

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Total/NA	Solid	5035	
880-52510-2	S-4 (0-4.5')	Total/NA	Solid	5035	
880-52510-3	S-5 (0-4.5')	Total/NA	Solid	5035	
MB 880-98490/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 98753

L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
8	80-52510-1	S-3 (0-4.5')	Total/NA	Solid	Total BTEX	
8	80-52510-2	S-4 (0-4.5')	Total/NA	Solid	Total BTEX	
8	80-52510-3	S-5 (0-4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 98591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Total/NA	Solid	8015B NM	98721
880-52510-2	S-4 (0-4.5')	Total/NA	Solid	8015B NM	98721
880-52510-3	S-5 (0-4.5')	Total/NA	Solid	8015B NM	98721
MB 880-98721/1-A	Method Blank	Total/NA	Solid	8015B NM	98721
LCS 880-98721/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98721
LCSD 880-98721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98721

Prep Batch: 98721

Lab Sample ID 880-52510-1	Client Sample ID S-3 (0-4.5')	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
880-52510-2	S-4 (0-4.5')	Total/NA	Solid	8015NM Prep	
880-52510-3	S-5 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-98721/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98721/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 98801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Total/NA	Solid	8015 NM	
880-52510-2	S-4 (0-4.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

Page 13 of 20

Released to Imaging: 5/14/2025 3:46:45 PM

2

5

^

10

12

13

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #4

Job ID: 880-52510-1

CC Sami VOA (Cantinu

GC Semi VOA (Continued)

Analysis Batch: 98801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-3	S-5 (0-4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Soluble	Solid	DI Leach	
880-52510-2	S-4 (0-4.5')	Soluble	Solid	DI Leach	
880-52510-3	S-5 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-98551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52510-1 MS	S-3 (0-4.5')	Soluble	Solid	DI Leach	
880-52510-1 MSD	S-3 (0-4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 98576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52510-1	S-3 (0-4.5')	Soluble	Solid	300.0	98551
880-52510-2	S-4 (0-4.5')	Soluble	Solid	300.0	98551
880-52510-3	S-5 (0-4.5')	Soluble	Solid	300.0	98551
MB 880-98551/1-A	Method Blank	Soluble	Solid	300.0	98551
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	300.0	98551
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98551
880-52510-1 MS	S-3 (0-4.5')	Soluble	Solid	300.0	98551
880-52510-1 MSD	S-3 (0-4.5')	Soluble	Solid	300.0	98551

Eurofins Midland

1

3

4

Q

10

12

Job ID: 880-52510-1

Client: Crain Environmental Project/Site: Chem State #4

Client Sample ID: S-3 (0-4.5')

Date Collected: 12/18/24 11:00 Date Received: 12/19/24 13:52 Lab Sample ID: 880-52510-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98490	12/20/24 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 14:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98753	12/21/24 14:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			98801	12/24/24 05:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 05:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 17:19	CH	EET MID

Client Sample ID: S-4 (0-4.5')

Date Collected: 12/18/24 11:05 Date Received: 12/19/24 13:52

Lab Sample ID: 880-52510-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 98490 12/20/24 14:34 MNR EET MID Prep 4.96 g 5 mL Total/NA Analysis 8021B **EET MID** 5 mL 5 mL 98345 12/21/24 14:52 MNR 1 Total/NA Analysis Total BTEX 98753 12/21/24 14:52 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 98801 12/24/24 05:20 SM Total/NA Prep 8015NM Prep 10.03 g 10 mL 98721 12/23/24 15:01 AM **EET MID** Total/NA 8015B NM 98591 Analysis 1 uL 1 uL 12/24/24 05:20 SM **EET MID** Soluble 5.00 g 98551 DI Leach 50 mL 12/21/24 14:11 CH **EET MID** Leach 300.0 Soluble Analysis 1 50 mL 50 mL 98576 12/24/24 17:37 CH **EET MID**

Client Sample ID: S-5 (0-4.5')

Date Collected: 12/18/24 11:10 Date Received: 12/19/24 13:52 Lab Sample ID: 880-52510-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98490	12/20/24 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98345	12/21/24 15:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98753	12/21/24 15:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			98801	12/24/24 05:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98721	12/23/24 15:01	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	98591	12/24/24 05:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98551	12/21/24 14:11	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 17:43	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 Job ID: 880-52510-1

Project/Site: Chem State #4

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	ס	T104704400	06-30-25
The following analyte	s are included in this rene	rt but the laboratory is r	not certified by the governing authori	ity. This list may inc
The following analyte	s are included in this repo	it, but the laboratory is i	not certified by the governing authori	ity. Triis iist may inc
0 ,	does not offer certification	•	lot certified by the governing authori	ity. This list may inc
0 ,	•	•	Analyte	ity. This list may inc
for which the agency	does not offer certification		, , ,	ity. This list may inc

Method Summary

Client: Crain Environmental Project/Site: Chem State #4 Job ID: 880-52510-1

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

Eurofins Midland

Page 17 of 20 Released to Imaging: 5/14/2025 3:46:45 PM

Sample Summary

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-52510-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
880-52510-1	S-3 (0-4.5')	Solid	12/18/24 11:00	12/19/24 13:52	0 - 4.5
880-52510-2	S-4 (0-4.58')	Solid	12/18/24 11:05	12/19/24 13:52	0 - 4.5
880-52510-3	S-5 (0-4.5')	Solid	12/18/24 11:10	12/19/24 13:52	0 - 4.5

1

4

_

9

10

12

13



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

Worl

	4	^		HO	bbs, NM (5	/5) 392-	/550, C	arisbad,	, INIVI (373	900-3	199				w	ww.xen	co.com	Page	/ of/
Proiect Manager:	Cindu C	rain		Bill to: (if differ	ent)	1	bri	56	odd	,						Work C	Order Co	omments	
Company Name:		viron mental		Company Nar	ne:	10	ctar	e					Program: UST/PST PRP Brownfields RRC Superfun				RRC Superfund		
Address:	2925 E.	17th St.		Address:		310 W. Wall, Ste. 300			00	State of Project: NM									
City, State ZIP:	Odessa.	TX 7976	1	City, State ZIP					<i>אל</i>				Repo	rting:	Level II	Level I		PST/UST T	RRP Level IV
Phone:		11-7244	Email:	Cindy.	Crair								Deliv	erables	EDD		ADa	PT Ot	her:
Project Name:	Chen Sto	rte # 4	Turn	Around							ANAL'	YSIS REQU	EST					Preser	vative Codes
Project Number:	_		Routine	Rush	Pres. Code													None: NO	DI Water: H ₂ O
Project Location:	Lea Co.	M	Due Date:															Cool: Cool	MeOH: Me
Sampler's Name:	Cindu Co	ain	TAT starts the	day received by														HCL: HC	HNO 3: HN
PO #:	-/		the lab, if rec	eived by 4:30pm														H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Bl	ank: Yes No	Wet Ice:	(Yes)No	Parameters													H ₃ PO ₄ : HP	
Samples Received Inta	act: Yes N	Thermomet	er ID:	TK.8	ram	2												NaHSO 4: NA	ABIS
Cooler Custody Seals:	Yes No	N/A Correction F	actor:	0,1	Pa Pa	8015M		N										Na ₂ S ₂ O ₃ : Na	SO ₃
Sample Custody Seals	: Yes No/	N/A Temperatur	e Reading:	4.3		6		2								-		Zn Acetate+	NaOH: Zn
Total Containers:		Corrected T	emperature:	4,2		1	TY.	2										NaOH+Ascor	bic Acid: SAPC
Sample Identi	ification	Matrix Date Sampled	Time Sampled	Depth Gra		HALL	BTE	Chil										Sampl	e Comments
5-3 (0	-4.5.)	5 12/18/24	1100	0-4.5° C	1	X	X	X											
	-4.5.)		1105	1 1			1												
	1-4.5')	1 1	1110	1	1	V	1	V											
													\top						
Total 200.7 / 601	0 200.8 / 60	20.	RCRA 13DD	M Texas 11	Al Sh	Ac R	a Ro	B C4	(2 ((0	CILE	e Ph Ma	Mn M	10 Ni	K Sp A	n SiΩ.	Na Sr	TI Sn II V	7n
Circle Method(s)				PLP 6010 : 8								_				_		/7470 /747	
Notice: Signature of this doct of service. Eurofins Xenco w of Eurofins Xenco. A minimu	ill be liable only for the co	ost of samples and shall not	assume any respo	ensibility for any loss	es or expens	es Incum	ed by the	e dient if	such loss	es are du	ue to circ	umstances bey	ond the co	ontrol	ted.				
Religiquished by: (Signature) Received by: (Signature)					Date/Time Relinquished by: (Signature)			re)	re) Received by: (Signature)				e)	Date/Time					
1 / india/	sain	to kk X	untell 2	To a	12	119/2	24	13:	52										
3		1	- My	4	1//			1 1	4										
5									6										
														1	-	-		Revised	Date: 08/25/2020 Rev. 2020.2







Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-52510-1

Login Number: 52510 List Source: Eurofins Midland

List Number: 1

Creator: Lee, Randell

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	

ge 130 0j 191

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/28/2025 7:56:01 PM

JOB DESCRIPTION

Chem State #4 Lea Co. NM

JOB NUMBER

880-54894-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 2/28/2025 7:56:01 PM

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

Client: Crain Environmental Laboratory Job ID: 880-54894-1 Project/Site: Chem State #4

SDG: Lea Co. NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Campio Cammary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-54894-1

SDG: Lea Co. NM

9

Qualifiers

GC VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

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

HPLC/IC

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

Eurofins Midland

2

3

4

6

0

9

11

Case Narrative

Client: Crain Environmental Project: Chem State #4

Job ID: 880-54894-1

Job ID: 880-54894-1 Eurofins Midland

Job Narrative 880-54894-1

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 2/26/2025 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-6 (4.5') (880-54894-1), S-7 (4.5') (880-54894-2) and S-2 (0-4.5') (880-54894-3).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-103706 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-103706/33).

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: S-6 (4.5') (880-54894-1), S-7 (4.5') (880-54894-2) and S-2 (0-4.5') (880-54894-3). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

2

6

ا

9

13

Matrix: Solid

Lab Sample ID: 880-54894-1

Client: Crain Environmental Job ID: 880-54894-1 Project/Site: Chem State #4 SDG: Lea Co. NM

Client Sample ID: S-6 (4.5')

Date Collected: 02/25/25 13:50 Date Received: 02/26/25 08:35

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/26/25 11:04	02/27/25 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				02/26/25 11:04	02/27/25 01:47	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/26/25 11:04	02/27/25 01:47	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/27/25 01:47	1
Method: SW846 8015 NM - Die	esel Range	Organics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/27/25 22:41	1
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/26/25 10:50	02/27/25 22:41	1

Client Sample ID: S-7 (4.5') Lab Sample ID: 880-54894-2 Date Collected: 02/25/25 13:48 **Matrix: Solid**

RL

9.92

MDL Unit

mg/Kg

D

Prepared

Analyzed

02/28/25 00:57

Dil Fac

Date Received: 02/26/25 08:35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

196

Sample Depth: 4.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/26/25 11:04	02/27/25 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/26/25 11:04	02/27/25 03:12	1

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-54894-1 SDG: Lea Co. NM

Lab Sample ID: 880-54894-2

Lab Sample ID: 880-54894-3

Matrix: Solid

Client Sample ID: S-7 (4.5') Date Collected: 02/25/25 13:48 Date Received: 02/26/25 08:35

Matrix: Solid

Sample Depth: 4.5

Surrogate		ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	02/26/25 11:04	02/27/25 03:12	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			02/27/25 03:12	1

Analyte	Result	Qualifier	RL MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/27/25 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/25 10:50	02/27/25 22:55	1
Surragata	9/ Bassivari	Qualifier	Limita				Droporod	Anglyzod	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	02/26/25 10:50	02/27/25 22:55	1
o-Terphenyl	67	S1-	70 - 130	02/26/25 10:50	02/27/25 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		9.98		mg/Kg			02/28/25 01:03	1

Client Sample ID: S-2 (0-4.5')

Date Collected: 02/25/25 13:46

Date Received: 02/26/25 08:35

Sample Depth: 0-4.5

Mothod: CIMOAC 9024E	Volatile Organic	Compounds (CC)

Welliou: Syvo46 60216 - Vo	name Organic	Compoun	as (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
Toluene	< 0.00200	U	0.00200		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/26/25 11:04	02/27/25 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/26/25 11:04	02/27/25 03:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/26/25 11:04	02/27/25 03:32	1

Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/27/25 03:32	1

Analyte	Result Q	ualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U		50.0	mg/Kg			02/27/25 23:10	1

Matrix: Solid

Lab Sample ID: 880-54894-3

Analyzed

02/28/25 01:09

Prepared

D

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #4
Job ID: 880-54894-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-4.5')

Date Collected: 02/25/25 13:46 Date Received: 02/26/25 08:35

Sample Depth: 0-4.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mç	ıg/Kg	_	02/26/25 10:50	02/27/25 23:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mç	ıg/Kg		02/26/25 10:50	02/27/25 23:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg	ıg/Kg		02/26/25 10:50	02/27/25 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/26/25 10:50	02/27/25 23:10	1
o-Terphenyl	69	S1-	70 - 130				02/26/25 10:50	02/27/25 23:10	1

RL

10.1

MDL Unit

mg/Kg

Result Qualifier

33.3

12

Dil Fac

Surrogate Summary

Client: Crain Environmental Job ID: 880-54894-1
Project/Site: Chem State #4 SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent S	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-54894-1	S-6 (4.5')	92	81	
880-54894-2	S-7 (4.5')	87	90	
880-54894-3	S-2 (0-4.5')	103	92	
LCS 880-103741/1-A	Lab Control Sample	98	112	
LCSD 880-103741/2-A	Lab Control Sample Dup	110	102	
MB 880-103715/5-A	Method Blank	88	95	
MB 880-103741/5-A	Method Blank	83	96	

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

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-54894-1	S-6 (4.5')	85	69 S1-	
80-54894-2	S-7 (4.5')	81	67 S1-	
80-54894-3	S-2 (0-4.5')	85	69 S1-	
.CS 880-103737/2-A	Lab Control Sample	94	84	
.CSD 880-103737/3-A	Lab Control Sample Dup	93	83	
//B 880-103737/1-A	Method Blank	120	107	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

1

Client: Crain Environmental Job ID: 880-54894-1 Project/Site: Chem State #4 SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103715/5-A

Matrix: Solid

Analysis Batch: 103706

Prep Type: Total/NA

Prep Batch: 103715

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/26/25 09:07	02/26/25 11:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/26/25 09:07	02/26/25 11:41	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/26/25 09:07	02/26/25 11:41	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/26/25 09:07	02/26/25 11:41	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/26/25 09:07	02/26/25 11:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/26/25 09:07	02/26/25 11:41	•

MB MB

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88	70 - 130	02/26/25 09:07	02/26/25 11:41	1
1,4-Difluorobenzene (Surr)	95	70 - 130	02/26/25 09:07	02/26/25 11:41	1

Lab Sample ID: MB 880-103741/5-A

Matrix: Solid

Analysis Batch: 103706

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

Prep Batch: 103741

	MB	MB					•	
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/25 11:04	02/26/25 22:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/25 11:04	02/26/25 22:21	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/25 11:04	02/26/25 22:21	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/26/25 11:04	02/26/25 22:21	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/25 11:04	02/26/25 22:21	1
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		02/26/25 11:04	02/26/25 22:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/26/25 11:04	02/26/25 22:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/26/25 11:04	02/26/25 22:21	1

Lab Sample ID: LCS 880-103741/1-A

Matrix: Solid

Analysis Batch: 103706

Client Sample	ID: Lab (Control S	Sample
---------------	-----------	-----------	--------

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103741

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1194		mg/Kg		119	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2151		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130	

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1.4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-103741/2-A

Matrix: Solid

Analyte Benzene

Analysis Batch: 103706

						Prep Ty	pe: Tot	al/NA
						Prep Ba	itch: 10	3741
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1201	-	mg/Kg		120	70 - 130	1	35

Eurofins Midland

Page 10 of 20

QC Sample Results

Client: Crain Environmental Job ID: 880-54894-1 Project/Site: Chem State #4 SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-103741/2-A

Matrix: Solid

Analysis Batch: 103706

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 103741**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1160		mg/Kg		116	70 - 130	13	35
Ethylbenzene	0.100	0.1256		mg/Kg		126	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2560		mg/Kg		128	70 - 130	17	35
o-Xylene	0.100	0.1275		mg/Kg		128	70 - 130	18	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-103737/1-A

Matrix: Solid

Analysis Batch: 103814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103737

MB MB **MDL** Unit **Analyte** Result Qualifier RL **Prepared** Analyzed Dil Fac <50.0 U 50.0 02/26/25 10:40 02/27/25 17:31 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/26/25 10:40 02/27/25 17:31 C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 02/26/25 10:40 02/27/25 17:31 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	02/26/25 10:40	02/27/25 17:31	1
o-Terphenyl	107		70 - 130	02/26/25 10:40	02/27/25 17:31	1

Lab Sample ID: LCS 880-103737/2-A

Matrix: Solid

Analysis Batch: 103814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103737 %Rec

LCS LCS Spike Added Result Qualifier Limits Analyte Unit D %Rec 1000 70 - 130 Gasoline Range Organics 1189 mg/Kg 119 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1067 mg/Kg 107 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-103737/3-A

Matrix: Solid

Analysis Batch: 103814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103737

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1147		mg/Kg		115	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1034		mg/Kg		103	70 - 130	3	20
C10-C28)									

QC Sample Results

Client: Crain Environmental Job ID: 880-54894-1 Project/Site: Chem State #4 SDG: Lea Co. NM

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

ICOD ICOD

Lab Sample ID: LCSD 880-103737/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 103814

Prep Type: Total/NA

Prep Batch: 103737

	LCSD	LUJD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103756/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 103850

мв мв

RL **MDL** Unit **Analyte** Result Qualifier Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 02/28/25 00:22 mg/Kg

Lab Sample ID: LCS 880-103756/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 103850

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 250 Chloride 261.4 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-103756/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 103850

LCSD LCSD Spike %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 250 105 90 - 110 Chloride 262.2 mg/Kg 20

QC Association Summary

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-54894-1

SDG: Lea Co. NM

GC VOA

Analysis Batch: 103706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Total/NA	Solid	8021B	103741
880-54894-2	S-7 (4.5')	Total/NA	Solid	8021B	103741
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	8021B	103741
MB 880-103715/5-A	Method Blank	Total/NA	Solid	8021B	103715
MB 880-103741/5-A	Method Blank	Total/NA	Solid	8021B	103741
LCS 880-103741/1-A	Lab Control Sample	Total/NA	Solid	8021B	103741
LCSD 880-103741/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103741

Prep Batch: 103715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103715/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 103741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Total/NA	Solid	5035	
880-54894-2	S-7 (4.5')	Total/NA	Solid	5035	
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	5035	
MB 880-103741/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103741/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103741/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 104011

Lab Sample ID 880-54894-1	Client Sample ID S-6 (4.5')	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-54894-2	S-7 (4.5')	Total/NA	Solid	Total BTEX	
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Total/NA	Solid	8015NM Prep	
880-54894-2	S-7 (4.5')	Total/NA	Solid	8015NM Prep	
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-103737/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103737/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103814

Lab Sample ID 880-54894-1	Client Sample ID S-6 (4.5')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 103737
880-54894-2	S-7 (4.5')	Total/NA	Solid	8015B NM	103737
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	8015B NM	103737
MB 880-103737/1-A	Method Blank	Total/NA	Solid	8015B NM	103737
LCS 880-103737/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103737
LCSD 880-103737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103737

Analysis Batch: 103996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Total/NA	Solid	8015 NM	
880-54894-2	S-7 (4.5')	Total/NA	Solid	8015 NM	

Eurofins Midland

Page 13 of 20

3

4

6

8

11

13

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #4
Job ID: 880-54894-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 103996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-3	S-2 (0-4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Soluble	Solid	DI Leach	
880-54894-2	S-7 (4.5')	Soluble	Solid	DI Leach	
880-54894-3	S-2 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-103756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 103850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54894-1	S-6 (4.5')	Soluble	Solid	300.0	103756
880-54894-2	S-7 (4.5')	Soluble	Solid	300.0	103756
880-54894-3	S-2 (0-4.5')	Soluble	Solid	300.0	103756
MB 880-103756/1-A	Method Blank	Soluble	Solid	300.0	103756
LCS 880-103756/2-A	Lab Control Sample	Soluble	Solid	300.0	103756
LCSD 880-103756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103756

Eurofins Midland

2

3

А

5

7

ŏ

10

11

13

Job ID: 880-54894-1 SDG: Lea Co. NM

Client: Crain Environmental Project/Site: Chem State #4 Client Sample ID: S-6 (4.5')

Lab Sample ID: 880-54894-1

Matrix: Solid

Date Collected: 02/25/25 13:50 Date Received: 02/26/25 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103741	02/26/25 11:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103706	02/27/25 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104011	02/27/25 01:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103996	02/27/25 22:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	103737	02/26/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103814	02/27/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103756	02/26/25 14:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103850	02/28/25 00:57	SMC	EET MID

Client Sample ID: S-7 (4.5') Lab Sample ID: 880-54894-2 Date Collected: 02/25/25 13:48 **Matrix: Solid**

Date Received: 02/26/25 08:35

Date Received: 02/26/25 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103741	02/26/25 11:04	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103706	02/27/25 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104011	02/27/25 03:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103996	02/27/25 22:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103737	02/26/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103814	02/27/25 22:55	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103756	02/26/25 14:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103850	02/28/25 01:03	SMC	EET MID

Lab Sample ID: 880-54894-3 **Client Sample ID: S-2 (0-4.5')** Date Collected: 02/25/25 13:46 **Matrix: Solid**

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 5.01 g 5 mL 103741 02/26/25 11:04 MNR **EET MID** Total/NA 8021B 5 mL Analysis 1 5 mL 103706 02/27/25 03:32 MNR **EET MID** Total/NA Analysis Total BTEX 1 104011 02/27/25 03:32 AJ **EET MID** Total/NA Analysis 8015 NM 103996 02/27/25 23:10 AJ **EET MID** 10.01 g Total/NA Prep 8015NM Prep 10 mL 103737 02/26/25 10:50 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 103814 02/27/25 23:10 TKC **EET MID** DI Leach 103756 Soluble Leach 4.96 g 50 mL 02/26/25 14:48 SA **EET MID**

50 mL

50 mL

103850

Laboratory References:

Analysis

Released to Imaging: 5/14/2025 3:46:45 PM

Soluble

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

300.0

Eurofins Midland

EET MID

02/28/25 01:09 SMC

Accreditation/Certification Summary

Client: Crain Environmental

Project/Site: Chem State #4

Job ID: 880-54894-1

SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

uthority		am	Identification Number	Expiration Date
exas	NELAI	P	T104704400	06-30-25
The fellowing conducts	to the first to the state of the			96 - T I. C. C. 6 - 6 - 1 - 1 - 1
• ,	•	•	not certified by the governing authori	ity. This list may inclu
• ,	s are included in this repo does not offer certification	•	not certified by the governing authori	ity. This list may inclu
• ,	•	•	not certified by the governing authori Analyte	ity. This list may inclu
for which the agency	does not offer certification		, , ,	ity. This list may incit

3

4

6

9

10

12

4 1

Method Summary

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-54894-1 SDG: Lea Co. NM

Laboratory

EET MID

EET MID

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Midland

2

5

6

8

9

11

12

Sample Summary

Client: Crain Environmental Project/Site: Chem State #4

Job ID: 880-54894-1 SDG: Lea Co. NM

o. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-54894-1	S-6 (4.5')	Solid	02/25/25 13:50	02/26/25 08:35	4.
880-54894-2	S-7 (4.5')	Solid	02/25/25 13:48	02/26/25 08:35	4.
880-54894-3	S-2 (0-4.5')	Solid	02/25/25 13:46	02/26/25 08:35	0-4

Δ

5

6

8

4.6

11

12

14

eurofins

Environment Testing

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

Work (

Xenco Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page indu Crain Bill to: (if different) **Work Order Comments** Project Manager: rain Environmental UST/PST PRP Brownfields RRC Superfund Company Name: Program: Company Name: 310 W. Wall. Str. 300 State of Project: Address: Address: Midland TX 79701 Reporting: Level II Level III PST/UST TRRP Level IV Odessa, TX 79761 City, State ZIP: City, State ZIP: EDD 441-7244 Cindy, Crain @ amail. com Deliverables: ADaPT Other: Email: Phone: State # 4 **Turn Around** ANALYSIS REQUEST **Preservative Codes** Project Name: Pres. Routine Rush None: NO DI Water: H2O Project Number: Due Date: Cool: Cool MeOH: Me Project Location: HCL: HC HNO 3: HN Sampler's Name: TAT starts the day received by the lab, if received by 4:30pm PO #: H2SO 4: H2 NaOH: Na 801511 SAMPLE RECEIPT Tomp Blank: Yes No Wet Ice: H₃PO₄: HP Thermometer ID: NaHSO 4: NABIS Samples Received Intact: Yes Na₂S₂O₃: NaSO₃ Cooler Custody Seals: Yes No N/A Correction Factor: Yes No N/A Temperature Reading: Zn Acetate+NaOH: Zn Sample Custody Seals: Corrected Temperature: NaOH+Ascorbic Acid: SAPC **Total Containers:** Date Grab/ # of Time Sample Identification Depth **Sample Comments** Matrix Sampled Sampled Cont Comp 1350 4.5 1348 4.5 0.45 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn Total 200.7 / 6010 200.8 / 6020: 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: Stanature 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) Received by: (Signature) Date/Time Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

ယ

Page 149 of 191

Received by OCD: 3/31/2025 12:48:18 PM

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-54894-1 SDG Number: Lea Co. NM

List Source: Eurofins Midland Login Number: 54894

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	

Released to Imaging: 5/14/2025 3:46:45 PM



Appendix D: Photographic Documentation

Appendix D Chem State #4



View of well sign (10/25/23).



View of staining at wellhead (10/25/23).



View of sample collection (3/12/24).



View of excavation (9/26/24).



View of excavation (12/18/24).



View of excavation (12/18/24).



View of excavation (12/18/24).



View to NE of excavation (2/25/25).



Appendix E: Waste Manifests



Ticket Number 106288 09/17/24 01:56 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

Fax (575)347-0435

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 1 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility

OSGY A MORLER

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

listed above.

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 106309 09/17/24 04:54 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000 Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

	WASTE	MAT	ERI	AL
--	-------	-----	-----	----

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.:

Driver Name: Truck Number: 1 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

OSLOW A MORGLES

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐RCRA NON-EXEMPT: MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107140 10/08/24 10:42 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272

MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Phone No.:

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address: Driver Name: Truck Number: 07 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME PUSZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

accompany this form.)

Name

Signature

Kimberly Murphy

Name



Ticket Number 107179 10/08/24 03:22 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272

MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Fmail:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Phone No.:

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address:

Driver Name: Truck Number: 07 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

> THIME GUEENOR **Driver Signature**

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107180 10/08/24 03:23 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Cell

LF

Box Number:

WASTE MATERIAL

Material Quantity 20.00 YDS OCD EXEMPT SOILS

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 09 Phone No.:

See second

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Kimberly Murphy Name

Name



Ticket Number 107139 10/08/24 10:41 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)0C0-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

3ox Number:

WASTE MATERIA_

Material Quantity Cell

OCD EXEMPT SOILS 20.00 YDS LF

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Fax (575)347-0435

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-139

I hereby certify that according to the Resource Conservation and Recovery Act (RICRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24 or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCR4 Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Signature

Kimberly Murphy Name

Name



Ticket Number 107264 10/09/24 04:30 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADEY Phone Number: (000)000-C000

Email:

DIC	DO	SAL	E A	CIL	ITV
1115	PUS	SAI	$-\Delta$	1.16	HY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIA	AL	
Quantity	Cell	
20.00 YDS	LF	

TRANSPORTER

Name: QUEZADA Address: Phone No.:

OCD EXEMPT SOILS

Material

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

			er Signature		
I hereby certify that according determination, the above de			C-138 Act (RCFA) and the Environmental Protection Agency's July 1988 regulatory		
RCRA Exempt:		wastes generated from oil and gas Marley, Inc. accepts certifications of	exploration and production operations and are not mixed with non-exempt waste. on a per month only basis.)		
□RCRA NON-EXEMPT:	Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by charactestablished in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261 as amended. The following documentation demonstrating the waste as non-hazardous is attached:				
MSDS Information			RCRA Hazardous Waste Analysis		
		Other (Prov	de Description Below)		
□Emergency Non-Oilfield:		Emergency non-hazardous, no (The order, documentation of naccompany this form.)	n-oi fied waste that has been ordered by the Department of Public Safety. on-hazardous waste determination, and a description of the waste must		
		Name	Signature		

Kimberly Murphy

Name



Ticket Number 107236 10/09/24 01:14 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADEY Phone Number: (000 000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

	WAS	ΤE	MA	[ER	AL
--	-----	----	----	-----	----

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: SBROS Address: Phone No.:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

> GEZAPISE VAINT

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oi fied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107211 10/09/24 09:50 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Lease: CHEM CTATE #4
Location: CHEM CTATE #4
Job Contact: CHRIS GADDY
Phone Number: (00C)000-0000

=mail:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAS		

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address:

Driver Name: Truck Number: 09 Phone No.:

Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

James Orossoll 20

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261-21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

■ MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐Emergency Non-Oilfield:

Emergency non-hazardous, non-diffied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy

Name



Ticket Number 107265 10/09/24 04:31 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

WAST	Εħ	TAI	ERI	AL

Material Quantity Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 07 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exp oration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFF. 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Prcvide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oi-fied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107212 10/09/24 09:51 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 07 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Signature

Kimberly Murphy

Name



Ticket Number 107237 10/09/24 01:14 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)00C-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAST	Œ	MAT	ER	AI.

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: SBROS Address:

Phone No.:

Criver Name: Truck Number: 07 Phone No .:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

■ MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy

Name



Ticket Number 107296 10/10/24 12:57 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT **Generator Contact:** PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Phone No.:

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Daniel &

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (F.CRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107317 10/10/24 03:59 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material Quantity Cell

20.00 YDS OCD EXEMPT SOILS

LF

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

1 AMY

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107284 10/10/24 09:48 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

Fax (575)347-0435

WASTE MATERIAL

Material OCD EXEMPT SOILS Cell LF

20.00 YDS

Quantity

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

> GUERRA SIR **Driver Signature**

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Winc.	2082	NTOP .			1
	GENERA		igin	(2) 20 -	
Generator Name		Lease/Well	igin		
Address		Name & No			
		County			
City, State, Zip		API No			
Phone No.		Rig Name & No	0		
Company Man		AFE/PO No			
TRUCK TIME STAMP	DISPOSALI	FACILITY	REG	CEIVING AREA	
IN:OUT:			Name/No. Landfil	II	
Site Name / Permit No. Commercial Landfill (NM-0		Phone No. 57	5-347-0434		
Address P.O. Box 1658 Roswell, NM	88202				
NORM Readings Taken? (Circle One) YE		If YES, was rea	ading > 50 micro roentge	ens? (Circle One)	YES NO
Pass the Paint Filter Test? (Circle One) YE					
	TRANSPO	DRTER			
Transporter's Name		Print Name			
Address		Truck No	14		
		Bin No			
Phone No.		Phone No			-
I hereby certify that the above named material(s) was/we	ere picked up at the Generator's	site listed above an	d delivered without incide	ent to the disposal facil	lity listed below.
		10 11	24	us later	
SHIPMENT DATE DRIVER'S SIG	GNATURE	DELIVER	Y DATE	DRIVER'S SIGNATUR	RE
Oil Based Cuttings Produ Water Based Muds Gathe Water Based Cuttings Ceme Produced Formation Solids Truck	oletion Fluid/Flowback loced Water (Non-Injectable) wring Line Water/Waste ant Water Washout /Jet Out & Debris		OTHER NON EVEN		
WASTE GENERATION PROCESS: Drilling	□ Completion	□ Pr	oduction	☐ Gathering Lines	5
Nor	n-Exempt E&P Waste/Service	e Identification ar	nd Amount		
(All non-exempt E&P waste must be	analyzed and be below the thresh	old limits for toxicity (TCLP), ignition, corrosivene	ss, and reactivity.)	
Non-Exempt Other:		*Please select	from Non-Exempt Waste Li	st on back	
QUANTITY: B - Bar	rrelsL-	Liquid	Y - Yards	E-	Each
20/4/11		.,			
	0.44	20			
	<u>C-13</u>	<u>38</u>			
I hereby certify that according to the Resource Conservatio described waste load is (Check the appropriate classification	1)		IP LY V	88 regulatory determine	nation, the above
RCRA EXEMPT: Oil field wastes general accepts certifications o	ted from oil and gas exploration and a per month only basis.)	and production ope	for of	n-exempt waste. (G	andy Marley, Inc
regulations, 40 CFR 261	non-hazardous that does not exe 1.21-261.24, or listed hazardous w te as non-hazardous is attached. (aste as defined by 40	C 8 1.		ablished in RCR/ ng documentation
MSDS Information	RCRA Hazardou	us Waste Analysis	10 "h	Description E	Below)
■ EMERGENCY NON-OILFIELD: Emergency non-hazard ous waste determination	lous, non-oilfield waste that has bon and a description of the waste r	een ordered by the De must accompany this	epartmer form.)	ımentatio	on of non-hazard
(PRINT) AUTHORIZED AGENTS SIGNATURE	DAT	E	_		
		C	ami -		

DATE

TITLE



27.17			
614	GEN	ER.	ATO

Generator Name			Location of O	rigiri	
Address					
iddiooo					
City Ctata 7in		•			
City, State, Zip					
Phone No.					
Company Man			AFE/PO No	-	
TRUCK TIM	E STAMP	DISPOSAL	FACILITY	RE	CEIVING AREA
IN:OU	T:			Name/No. Landf	ill
Comm	omial Landfill (NM 04 00	10)	Phone No. 5		
Site Name / Permit No. Comm	ox 1658 Roswell, NM 8820		Phone No. 3	13-341-0434	
NORM Readings Take	en? (Circle One) YES Test? (Circle One) YES	NO NO		eading > 50 micro roentg	gens? (Circle One) YES NO
		TRANSP			
Transporter's Name					
Address			Truck No	. 7	
			Bin No		
Phone No.					
hereby certify that the above nar	med material(s) was/were pi	cked up at the Generator			dent to the disposal facility listed below
			10 1	24 EX DATE	MIME LONGE CO
SHIPMENT DATE	DRIVER'S SIGNAT	URE	DELIVER	RY DATE	DRIVER'S SIGNATURE
Exempt E	&P Waste/Service Identifi	cation and Amount (Pl	ace volume next t	o waste type in barrels	or cubic yards)
Oil Based Muds	Completion	Fluid/Flowback		OTHER EXEMPT W	ASTE
		Water (Non-Injectable)			
		Line Water/Waste			
Water Based Cuttings Produced Formation Solids	Cement Wa	nout /Jet Out		OTHER NON-EXEN	MPT WASTE
Tank Bottoms	Trash & Del				Annual Control of the
E&P Contaminated Soil					
Gas Plant Waste					D.O. W
WASTE GENERATION PROCESS:		□ Completion		Production	☐ Gathering Lines
/All non-ava	Non-Exempt E&P waste must be analy:	empt E&P Waste/Servi			ess and reactivity)
Non-Exempt Other:				t from Non-Exempt Waste L	list on back
QUANTITY:	B - Barrels	L-	· Liquid ——	Y - Yards	E - Each
		C-1	38		
	a Descured Concentration and			al Protection Agency's July	1988 regulatory determination, the above
				al Protection Agency's July	1988 regulatory determination, the above
	appropriate classification)	d Recovery Act (RCRA) and	the US Environment		
described waste load is (Check the	appropriate classification) Oil field wastes generated fraccepts certifications on a periodic field waste which is non-	om oil and gas exploration er month only basis.) hazardous that does not exploration that does not explored.	and production operations and production operations are the minimum swaste as defined by 4	ations and are not mixed wi tandards for waste hazardo 0 CFR, part 261, subpart D,	ith non-exempt waste. (Gandy Marley, Inc.
described waste load is (Check the RCRA EXEMPT:	appropriate classification) Oil field wastes generated frr accepts certifications on a per oil field waste which is non-regulations, 40 CFR 261.21-2 demonstrating the waste as a	om oil and gas exploration er month only basis.) hazardous that does not exploration that does not explored.	and production operations and production operations are seed the minimum swaste as defined by 4 (Check the appropria	tandards for waste hazardo 0 CFR, part 261, subpart D, te items as provided.)	ith non-exempt waste. (Gandy Marley, Inc
described waste load is (Check the RCRA EXEMPT: RCRA NON-EXEMPT: MSDS Inform	appropriate classification) Oil field wastes generated from accepts certifications on a period of the control o	om oil and gas exploration er month only basis.) chazardous that does not exploration that does not explored the properties of the proper	and production operators and production operators as defined by 4 (Check the appropriatous Waste Analysis been ordered by the D	tandards for waste hazardo 0 CFR, part 261, subpart D, te items as provided.) Other	ith non-exempt waste. (Gandy Marley, In hus by characteristics established in RCR as amended. The following documentation her (Provide Description Below)
described waste load is (Check the RCRA EXEMPT: RCRA NON-EXEMPT: MSDS Inform	appropriate classification) Oil field wastes generated from accepts certifications on a period of the control	om oil and gas exploration er month only basis.) chazardous that does not exploration that does not explored the properties of the proper	and production operations and production operations are as defined by 4 (Check the appropriations Waste Analysis been ordered by the Emust accompany this	tandards for waste hazardo 0 CFR, part 261, subpart D, te items as provided.) Other	ith non-exempt waste. (Gandy Marley, Inc. bus by characteristics established in RCR as amended. The following documentation ther (Provide Description Below)
described waste load is (Check the RCRA EXEMPT: RCRA NON-EXEMPT: MSDS Infor	appropriate classification) Oil field wastes generated from accepts certifications on a period of the control	om oil and gas exploration er month only basis.) chazardous that does not exploration er month only basis.) chazardous that does not exploration on the properties of the pr	and production operations and production operations are as defined by 4 (Check the appropriations Waste Analysis been ordered by the Emust accompany this	tandards for waste hazardo 0 CFR, part 261, subpart D, te items as provided.) Other	ith non-exempt waste. (Gandy Marley, Inc. bus by characteristics established in RCR as amended. The following documentation ther (Provide Description Below) The order, documentation of non-hazard
described waste load is (Check the RCRA EXEMPT: RCRA NON-EXEMPT: MSDS Infor	appropriate classification) Oil field wastes generated from accepts certifications on a period of the control	om oil and gas exploration er month only basis.) chazardous that does not exploration er month only basis.) chazardous that does not exploration on the properties of the pr	and production operations and production operations are as defined by 4 (Check the appropriations Waste Analysis been ordered by the Emust accompany this	tandards for waste hazardo 0 CFR, part 261, subpart D, te items as provided.) Other	(The order, documentation of non-hazard

GM_inc.

		GENER			1-1-1
Generator Name	150000		Location of Ori Lease/Well	igin	N CIAIT FA
Address					
					•
City, State, Zip					
Phone No.			Rig Name & No	0	
Company Man					
		•	ELOUIEV		
TRUCK TIME STA	MP	DISPOSAL	FACILITY		RECEIVING AREA
IN:OUT:				Name/No.	Landfill
	-	21	57		
Site Name / Permit No. Commercial L			Phone No. 57	3-347-0434	V
NORM Readings Taken? (Circ	Roswell, NM 88202	NO	If VES was rea	adina > 50 micro	o roentgens? (Circle One) YES NO
Pass the Paint Filter Test? (Ci		NO	11 1 LO, Was 100	ading > 00 mion	o tochigens (Girole One)
, race the ramin me. Test (e.	9	TRANSP	ORTER		
Transporter's Name	WAT Y	125			
Address					
Phone No.			Phone No.		
					out incident to the disposal facility listed below.
			10/1/24		1 / AME (SURDA VA
SHIPMENT DATE	DRIVER'S SIGNATUR	RE	DELIVERY	Y DATE	DRIVER'S SIGNATURE
Exempt E&P Was	te/Service Identifica	ation and Amount (Pl	ace volume next to	waste type in	barrels or cubic yards)
Oil Based Muds	Completion F	luid/Flowback		OTHER EX	KEMPT WASTE
Oil Based Cuttings		ter (Non-Injectable)			
Water Based Muds	Gathering Lin Cement Wate	e Water/Waste			
Water Based Cuttings Produced Formation Solids	Truck Washo			OTHER NO	ON-EXEMPT WASTE
Tank Bottoms	Trash & Debri	is			
E&P Contaminated Soil Gas Plant Waste	_			-	
WASTE GENERATION PROCESS: Drilli	na	□ Completion	D Pr	oduction	☐ Gathering Lines
WASTE GENERATION THOOLOG. G STIM		mpt E&P Waste/Servi			
(All non-exempt E&P		The second secon			prrosiveness, and reactivity.)
Non-Exempt Other:			*Please select	from Non-Exempt	t Waste List on back
QUANTITY:	B - Barrels	L-	Liquid	Y - Ya	ards E - Each
			-		
		C-1	38		
I hereby certify that according to the Resou described waste load is (Check the appropria	rce Conservation and F ate classification)	Recovery Act (RCRA) and	the US Environmenta	I Protection Agen	cy's July 1988 regulatory determination, the above
☐ RCRA EXEMPT: Oil field accepts	wastes generated from s certifications on a per	n oil and gas exploration month only basis.)	and production operat	tions and are not	mixed with non-exempt waste. (Gandy Marley, Inc.
regulati	ons. 40 CFR 261.21-26	azardous that does not en 1.24, or listed hazardous on-hazardous is attached.	waste as defined by 40	CFR, part 261, su	hazardous by characteristics established in RCRA ubpart D, as amended. The following documentation
MSDS Information	strating the waste as no	RCRA Hazardo		e items as provide	Other (Provide Description Below)
■ EMERGENCY NON-OILFIELD: Emerge ous was	ency non-hazardous, no ste determination and a	n-oilfield waste that has in description of the waste	been ordered by the De must accompany this	epartment of Publi form.)	ic Safety. (The order, documentation of non-hazard-
(PRINT) AUTHORIZED AGENTS SIG	NATURE	DA	TE		SIGNATURE
M' To		1 34	1 = 3	aMI.	
NAME (PRINT)	DA	TF.		TITLE	SIGNATURE



GENERATOR

Generator Name	A MONTHE !	-	Location of Orig	gin		
Address						
City, State, Zip						
				I No. :		
Phone No.						
Company Man			AFE/PO No			
and the second second	ME STAMP	DISPOSAL	FACILITY		CEIVING AREA	
IN:O	UT:			Name/No. Landfi	<u>"</u>	
Site Name / Permit No. Com	mercial Landfill (NM-01-00	19)	Phone No. 575	5-347-0434		
	Box 1658 Roswell, NM 8820					
	aken? (Circle One) YES er Test? (Circle One) YES	NO NO TRANSP		ding > 50 micro roentge	ens? (Circle One) YES NO	
Transporter's Name	Wit Zule &					
Address			Truck No.	74		
Phone No.						
					ent to the disposal facility listed below.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				24 DATE		
SHIPMENT DATE	DRIVER'S SIGNATU	JRE	DELÎVERY	DATE	DRIVER'S SIGNATURE	
Exempt	E&P Waste/Service Identific	cation and Amount (Pla	ace volume next to	waste type in barrels	or cubic yards)	
Oil Based Muds		Fluid/Flowback		OTHER EXEMPT W		
Oil Based Cuttings		Vater (Non-Injectable)				
Water Based Muds		ine Water/Waste				
Water Based Cuttings	Cement Wa			OTHER NON-EXEM	PT WASTE	
Produced Formation Solids Tank Bottoms	Truck Wash	out /Jet Out oris				
E&P Contaminated Soil						
Gas Plant Waste						
WASTE GENERATION PROCES	S: Drilling	□ Completion	□ Pro	duction	☐ Gathering Lines	
		empt E&P Waste/Service				
(All non-e	xempt E&P waste must be analyz	red and be below the thresh				
Non-Exempt Other:			*Please select f	rom Non-Exempt Waste Li	ist on back	
QUANTITY:	B - Barrels	L -	Liquid —	Y - Yards	E - Each	
		C-1	38			
I hereby certify that according to	the Resource Conservation and			Protection Agency's July	1988 regulatory determination, the above	
described waste load is (Check the BCRA EXEMPT:	he appropriate classification) Oil field wastes generated from	om oil and gas exploration			th non-exempt waste. (Gandy Marley, Inc.	
RCRA NON-EXEMPT:	oil field waste which is non-	hazardous that does not ex	ceed the minimum star	ndards for waste hazardou	us by characteristics established in RCRA as amended. The following documentation	
	demonstrating the waste as r					
☐ MSDS Inf	formation	RCRA Hazardo	us Waste Analysis	☐ Oth	er (Provide Description Below)	
☐ EMERGENCY NON-OILFIELD	D: Emergency non-hazardous, rous waste determination and	non-oilfield waste that has be a description of the waste	een ordered by the Dep must accompany this fo	partment of Public Safety. orm.)	(The order, documentation of non-hazard-	
(PRINT) AUTHORIZED A	GENTS SIGNATURE	DAT	E		SIGNATURE	
Marie		Inter	G	MI		
NAME (PRINT)		ATE	TI	TLE	SIGNATURE	
Released to Imaging: 5/14					SUPERIOR PRINTING SERVICE, INC.	

GA		-
AN	inc.	_

GENERATOR

Generator Name	dall til		Location of Original Lease/Well	gin	1/ = # /
Address					
City, State, Zip					
Phone No.					
Company Man					
Company man					
TRUCK TIM	ME STAMP	DISPOSAL	FACILITY	REC	CEIVING AREA
IN: O	UT:			Name/No. Landfil	
			57		
Site Name / Permit No. Com			Phone No. 578	5-347-0434	
Address	Box 1658 Roswell, NM 882		# VEQ	diana 60 minus mantus	and (Cirola Cra) VEC NO
	ken? (Circle One) YES r Test? (Circle One) YES	NO NO	IT YES, was rea	iding > 50 micro roentge	ens? (Circle One) YES NO
Pass the Paint Filter	r lest? (Circle Offe) TES	TRANSPO	ORTER		
Transporter's Name	as Fretz				
			Truck No.	-	
Address					
Phone No.					
					ent to the disposal facility listed below.
Thereby certify that the above in	iamod material(s) was were p	ioned up at the denorator of			
SHIPMENT DATE	DRIVER'S SIGNAT	TURE	DELIVERY	DATE	DRIVER'S SIGNATURE
	E&P Waste/Service Identif	ication and Amount (Pla	ce volume next to	waste type in harrels	or cubic vards)
Oil Based Muds		n Fluid/Flowback	ice volume next to	OTHER EXEMPT WA	
Oil Based Cuttings	The state of the s	Water (Non-Injectable)			1012
	Gathering	Line Water/Waste			
Water Based Cuttings	Cement W		_	OTHER NON-EXEM	PT WASTE
Produced Formation Solids	Truck Wasi	hout /Jet Out		OTTER NON-EXEM	TIWASIE
Tank Bottoms E&P Contaminated Soil	Irasii & De	eoris	-		
Gas Plant Waste					
WASTE GENERATION PROCESS	S: Drilling	□ Completion	□ Pro	oduction	☐ Gathering Lines
		cempt E&P Waste/Service			
	xempt E&P waste must be analy		old limits for toxicity (1	CLP), ignition, corrosivene	ss, and reactivity.)
Non-Exempt Other:	•		*Please select	from Non-Exempt Waste Li	st on back
QUANTITY:	B - Barrels	L-	Liquid	Y - Yards	E - Each
		C-13	38		
	" - B			Destaction Agency's July	1999 regulatory determination, the above
hereby certify that according to described waste load is (Check the		d Hecovery Act (HCHA) and	the US Environmental	Protection Agency's July	1988 regulatory determination, the above
RCRA EXEMPT:			and production operati	ons and are not mixed with	h non-exempt waste. (Gandy Marley, Inc
	accepts certifications on a p				
RCRA NON-EXEMPT:	Oil field waste which is non-	-hazardous that does not exc	ceed the minimum sta	ndards for waste hazardou	s by characteristics established in RCRA amended. The following documentation
HORA NON-EXEMPT.		non-hazardous is attached. (s afferded. The following documentation
A ROPA NOIN-EXEMPT.	demonstrating the waste as				
MSDS Info		RCRA Hazardou	us Waste Analysis	☐ Oth	er (Provide Description Below)
		RCRA Hazardou	us Waste Analysis	Oth	er (Provide Description Below)
☐ MSDS Infe	formation D: Emergency non-hazardous,	non-oilfield waste that has be	een ordered by the De	partment of Public Safety.	
☐ MSDS Infe	formation D: Emergency non-hazardous,		een ordered by the De	partment of Public Safety.	
☐ MSDS Infe	formation D: Emergency non-hazardous,	non-oilfield waste that has be	een ordered by the De	partment of Public Safety.	
☐ MSDS Infe	formation D: Emergency non-hazardous,	non-oilfield waste that has be	een ordered by the De	partment of Public Safety.	
☐ MSDS Infe	ormation D: Emergency non-hazardous, ous waste determination and	non-oilfield waste that has be	een ordered by the De nust accompany this f	partment of Public Safety.	
☐ MSDS Info	ormation D: Emergency non-hazardous, ous waste determination and	non-oilfield waste that has bed a description of the waste r	een ordered by the De nust accompany this f	partment of Public Safety.	(The order, documentation of non-hazard
☐ MSDS Info	ormation D: Emergency non-hazardous, ous waste determination and	non-oilfield waste that has bed a description of the waste r	een ordered by the De must accompany this f	partment of Public Safety. (orm.)	(The order, documentation of non-hazard-
☐ MSDS Info	ormation D: Emergency non-hazardous, ous waste determination and	non-oilfield waste that has bed a description of the waste r	een ordered by the De must accompany this f	partment of Public Safety.	(The order, documentation of non-hazard-

Received by OCD: 3/31/2025 12:48:18 PM
NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

A/V	inc	
TVL	inc.	

qv inc.	7210				
-		GENERATOR	ocation of Or	igin	40
Generator Name			ease/Well	.5	
Address					
		C	ounty	,	
City, State, Zip		A	PI No		
Phone No.			g Name & N	0	
Company Man		A	FE/PO No		1
TRUCK TIM	E STAMP	DISPOSAL FACI	<u>LITY</u>	REC	CEIVING AREA
IN:OU	T:			Name/No. Landfill	
			57	5 247 0424	
Site Name / Permit No. Comm			none No. 57	3-347-0434	
NORM Readings Tak	ox 1658 Roswell, NM 88202 en? (Circle One) YES Test? (Circle One) YES	NO If		ading > 50 micro roentge	ns? (Circle One) YES NO
		TRANSPORTI			
Transporter's Name	and the second				
Address		Tr	uck No	1	
		В	in No		
Phone No.					
I hereby certify that the above na	med material(s) was/were pick		4	nd delivered without incide	nt to the disposal facility listed below.
SHIPMENT DATE	DRIVER'S SIGNATUR		DELIVER	Y DATE	DRIVER'S SIGNATURE
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids	Gathering Line Cement Water Truck Washou	luid/Flowback ter (Non-Injectable) e Water/Waste r tt /Jet Out	ume next to	OTHER EXEMPT WA	STE
Tank Bottoms E&P Contaminated Soil Gas Plant Waste	Trash & Debris	s			
WASTE GENERATION PROCESS:	☐ Drilling	☐ Completion	□ Pr	roduction	☐ Gathering Lines
(All non-exe	Non-Exemempt E&P waste must be analyzed	npt E&P Waste/Service Idea d and be below the threshold limit			es, and reactivity.)
Non-Exempt Other:			*Please select	from Non-Exempt Waste Lis	st on back
QUANTITY:	B - Barrels	L - Liquid	-	Y - Yards	E - Each
I hereby certify that according to the	he Resource Conservation and F	C-138 Recovery Act (RCRA) and the US	Environmenta	al Protection Agency's July 1	988 regulatory determination, the above
described waste load is (Check the		oil and and evaluation and	duction coa	tions and ero not mixed with	non-exempt waste. (Gandy Marley, Inc.
RCRA EXEMPT:	accepts certifications on a per r	month only basis.)			
RCRA NON-EXEMPT:	regulations, 40 CFR 261.21-261	zardous that does not exceed the last of last as I.24, or listed hazardous waste as n-hazardous is attached. (Check	defined by 40	CFR, part 261, subpart D, a	s by characteristics established in RCRA s amended. The following documentation
☐ MSDS Infor	mation	RCRA Hazardous Wast	e Analysis	Othe	er (Provide Description Below)
☐ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, nor ous waste determination and a	n-oilfield waste that has been ord description of the waste must ad	lered by the Decompany this	epartment of Public Safety. (form.)	The order, documentation of non-hazard-
(DOINT) ALITHODIZED ACC	ENTS SIGNATURE	DATE			SIGNATURE

NAME (PRINT)
Released to Imaging: 5/14/2025 3:46:45 PM

DATE

GMI TITLE

SIGNATURE

SUPERIOR PRINTING SERVICE, INC. .



Ticket Number 107345 10/14/24 01:33 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAST		

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address: Phone No.:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

2 amous

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

■ MSDS Information

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Kimberly Murphy

Name

Name

Signature



Ticket Number 107330 10/14/24 09:50 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Phone No.: (432)620-9181

Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Phone No.:

Quantity

Cell

OCD EXEMPT SOILS

Fax (575)347-0435

20.00 YDS

LF

TRANSPORTER

Name: QUEZADE Address:

Driver Name: Truck Number: 09 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

DANOA < /2

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

□ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107329 10/14/24 09:49 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272

PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WA	CT	E N/	TAB	EDI	AI
AAM		C 14	124		~_

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: QUEZADA Address: Phone No.: Driver Name: Truck Number: 07 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEERDA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

■MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

accompany and form.

Name

Name

Signature



Ticket Number 107809 10/28/24 11:50 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT **Generator Contact:** PO BOX 272

MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

WASTE MATERIAL

Material

Quantity

Email:

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: EL PRIMO TRUCKING

Address: Phone No.: Driver Name: Truck Number: 1

Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Bar A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy



Ticket Number 107835 10/28/24 03:00 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT

Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #2 Location: CHEM STATE #2 Job Contact: -

Phone Number: (000)000-0000

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAST	E M	ATE	RIAL
------	-----	-----	------

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: EL PRIMO TRUCKING

Address: Phone No.: Driver Name: Truck Number: 1 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

David Moral=

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

MSDS Information

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy

Received by OCD: 3/31/2025 12:48:18 PM
NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

G			
4	VLL	nc.	
_	-		

M inc.	7225	GENERA	TOR		
Le i Man			Location of Orig	gin	
Generator Name					
Address			-	O-11 -B 4	
			County		
City, State, Zip			API No		
Phone No			Rig Name & No)	
Company Man			AFE/PO No	•	
		DICDOCAL	ACILITY		
TRUCK TIME	E STAMP	DISPOSAL F	ACILITY	RECEIVING AREA	
IN: Pas Am OUT	r:			Name/No. Landfill	
Site Name / Permit No. Comme			Phone No. 575	5-347-0434	
	x 1658 Roswell, NM 88202				
	,	10	If YES, was rea	ading > 50 micro roentgens? (Circle One) YES NO	
Pass the Paint Filter To	est? (Circle One) YES N	10			
		TRANSPO			
Fransporter's Name		1			
Address			Truck No		
	·		Bin No		
Phone No.			Phone No		
Dil Based Muds	Completion Fluid Produced Water Gathering Line V Cement Water Truck Washout / Trash & Debris Drilling Non-Exemp npt E&P waste must be analyzed a	d/Flowback r (Non-Injectable) Water/Waste /Jet Out Completion at E&P Waste/Service	□ Pro e Identification an Id limits for toxicity (T	oduction	
		C-13	8		
hereby certify that according to the described waste load is (Check the a				Protection Agency's July 1988 regulatory determination, the above	
RCRA EXEMPT:	Oil field wastes generated from o accepts certifications on a per mo		nd production operati	ions and are not mixed with non-exempt waste. (Gandy Marley, Inc.	
RCRA NON-EXEMPT:		4, or listed hazardous wa	ste as defined by 40	ndards for waste hazardous by characteristics established in RCR/ CFR, part 261, subpart D, as amended. The following documentation terms as provided.)	
□ MSDS Inform	nation	RCRA Hazardous	Waste Analysis	Other (Provide Description Below)	
☐ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, non-ous waste determination and a de			partment of Public Safety. (The order, documentation of non-hazard- orm.)	
(PRINT) AUTHORIZED AGE	NITS SIGNATURE	DATE		SIGNATURE	

NAME (PRINT)
Released to Imaging: 5/14/2025 3:46:45 PM

DATE

GMI TITLE

SIGNATURE



Ticket Number 110558 12/19/24 09:50 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 41 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

listed above.

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

□RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Billy Jack Clayton

Name



Ticket Number 110603 12/19/24 12:54 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM STATE #4 Location: CHEM STATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASI	E	MAI	ER	AL
------	---	-----	----	----

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 41

Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

■MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

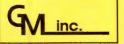
Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Billy Jack Clayton

Name



Released to Imaging: 5/14/2025 3:46:45 PM

GEI		

Generator Name	La sur Alla	revental	Location of Or Lease/Well	rigin	State 88
Address				1 2 8 14	
City, State, Zip					21/4
Phone No.					
Company Man					
Company Wan		7	711 21 0 110.	-	
TRUCK TIME		DISPOSAL	FACILITY		RECEIVING AREA
IN:OUT	T:			Name/No. La	indfill
Site Name / Permit No. Comme	ercial Landfill (NM-01-00	119)	Phone No. 57	75-347-0434	
Address P.O. Bo	x 1658 Roswell, NM 8820	02			
	en? (Circle One) YES Test? (Circle One) YES	NO NO TRANSP	ORTER		entgens? (Circle One) YES NO
Transporter's Name	1-050 1:		Print Name	TALL	Minister
Address				West of the second	
			Bin No.		
Phone No.					
I hereby certify that the above name	med material(s) was/were pi	icked up at the Generator'	's site listed above ar	nd delivered without	incident to the disposal facility listed below.
				1.748	auch
SHIPMENT DATE	DRIVER'S SIGNATI	URE	DELIVER	Y DATE	DRIVER'S SIGNATURE
Exempt E8	P Waste/Service Identifi	ication and Amount (Pla	ace volume next to	waste type in bar	rels or cubic yards)
Oil Based Muds		Fluid/Flowback		OTHER EXEMI	
		Water (Non-Injectable)			
	Gathering L Cement Wa	Line Water/Waste			
Water Based Cuttings Produced Formation Solids		nout /Jet Out		OTHER NON-	EXEMPT WASTE
Tank Bottoms	Trash & Del	bris			
E&P Contaminated Soil	No.				
Gas Plant Waste	D. D. W.	D. O	D. D.	and dusting	D Calledon Lines
WASTE GENERATION PROCESS:		☐ Completion		roduction	☐ Gathering Lines
(All non-exer	mpt E&P waste must be analy:	empt E&P Waste/Service and be below the thresh			iveness, and reactivity.)
Non-Exempt Other:				from Non-Exempt Wa	
				0	
QUANTITY:	B - Barrels	L-	Liquid	Y - Yards	E - Each
		<u>C-1</u>	<u>38</u>		
I hereby certify that according to the described waste load is (Check the a	appropriate classification)				July 1988 regulatory determination, the above
RCRA EXEMPT:	Oil field wastes generated fro accepts certifications on a pe		and production operat	tions and are not mixe	d with non-exempt waste. (Gandy Marley, Inc.
☐ RCRA NON-EXEMPT:		261.24, or listed hazardous v	waste as defined by 40	CFR, part 261, subpar	ardous by characteristics established in RCRA rt D, as amended. The following documentation
☐ MSDS Inform		RCRA Hazardo		_	Other (Provide Description Below)
☐ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, rous waste determination and				fety. (The order, documentation of non-hazard-
(PRINT) AUTHORIZED AGEI	NTS SIGNATURE	DAT	re	<u> </u>	SIGNATURE
(PRINT) AUTHORIZED AGE	NTS SIGNATURE	DAT			SIGNATURE
(PRINT) AUTHORIZED AGEI	rats 12	DATE DATE		GMI TITLE	SIGNATURE

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 447270

QUESTIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2426161980	
Incident Name	NAPP2426161980 CHEM STATE #4 @ 30-025-23075	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-23075] CHEM STATE #004	

Location of Release Source		
Please answer all the questions in this group.		
Site Name	CHEM STATE #4	
Date Release Discovered	03/29/2024	
Surface Owner	State	

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Normal Operations Fitting Crude Oil Released: 3 BBL Recovered: 2 BBL Lost: 1 BBL.	
Produced Water Released (bbls) Details	Cause: Normal Operations Fitting Produced Water Released: 3 BBL Recovered: 2 BBL Lost: 1 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 447270

QUESTIONS (co	ontinued
---------------	----------

Operator: CAMBRIAN MANAGEMENT LTD	OGRID: 198688
310 W Wall Street Ste 300 Midland, TX 79701	Action Number:
	447270
	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	
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	The Chem State #4 well has been P&A'd and the site is being remediated/reclaimed according to State Land Office (SLO) specifications. Upon submitting a Reclamation and Remediation Workplan to the SLO, they requested an investigation of any soil stained areas at the wellhead. This NOR is being submitted a result of samples collected around the wellhead that reported TPH concentrations above the OCD Closure Criteria. This is a historical release.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface ort does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com

Date: 03/31/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 447270

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	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	U.S. Geological Survey
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)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (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 mil	igrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	7790	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4440	
GRO+DRO (EPA SW-846 Method 8015M)	4186	
BTEX (EPA SW-846 Method 8021B or 8260B)	0.2	
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	09/09/2024	
On what date will (or did) the final sampling or liner inspection occur	02/25/2025	
On what date will (or was) the remediation complete(d)	02/25/2025	
What is the estimated surface area (in square feet) that will be reclaimed	500	
What is the estimated volume (in cubic yards) that will be reclaimed	600	
What is the estimated surface area (in square feet) that will be remediated	500	
What is the estimated volume (in cubic yards) that will be remediated	600	
These estimated dates and measurements are recognized to be the best guess or calculation at the	, , , , , , , , , , , , , , , , , , , ,	
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.		

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 447270

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	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	TNM-55-95 [fAB000000061]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com
Date: 03/31/2025

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.

Released to Imaging: 5/14/2025 3:46:45 PM

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 447270

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 447270

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	433558
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/25/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	500

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	500	
What was the total volume (cubic yards) remediated	600	
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	500	
What was the total volume (in cubic yards) reclaimed	600	
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 nonimpacted 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: Socorro Hendry
Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com
Date: 03/31/2025

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 7

Action 447270

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	447270
	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	

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 447270

CONDITIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300	198688
	Action Number:
Midland, TX 79701	447270
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report is approved. Release resolved. To note, the excavation soils only comes out to 100 cubic yards versus the 600 cubic yards reported. The remaining 500 cubic yards apparently came from the well pad itself and was not mentioned in the report due to issues dealing with the state land office on the reclamation matter for the site.	5/14/2025