Released Volume Calculation

Length	40 feet
Width	40 feet
Thickness	0.5 in

800 gal = 19 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 800 gallons (US, dry)

19 Bbls

Crain Environmental

Remediation Summary and Closure Report with Reclamation Report

March 18, 2026

State J 2 #017
30-025-33277
Oil Release
Incident #nSAP0225252743 and
Incident #nAPP2511834534
Lease B0-1534
Lea County, New Mexico

Prepared For:

Southwest Royalties, Inc.
P.O. Box 53570
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Crain Environmental

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1.0 Introduction

On behalf of Southwest Royalties, Inc. (SWR), Crain Environmental (CE) has prepared this Remediation Summary and Closure Report with Reclamation Report for a historical release (Incident #nSAP0225252743) and a recently reported release (nAPP2511834534) at the State J 2 #017 (Site), located in Unit Letter I, Section 2, Township 22 South, Range 36 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.4172592, -103.2306595. The property surface rights are owned by the State of New Mexico (Lease BO-1534).

The State J 2 #017 is located approximately 4.5 miles southwest of Eunice, New Mexico, in an area of oil and gas activity and cattle grazing. The Site can be accessed by traveling south from Eunice, New Mexico on Legion Road for 3 miles to Delaware Basin Road. Travel west on Delaware Basin Road for 2.74 miles and turn north on the lease road. Travel north for 1.27 miles to the Site. There are no locked gates or other access issues. The attached Figure 1 shows the Site location.

2.0 Background

At the request of the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO), a soil investigation was conducted on the well pad where historical aerial photos indicated a past release, and at the tank battery where an open New Mexico Oil Conservation Division (NMOCD) Incident (#nSAP0225252743) was located.

The soil investigation indicated that a historical release had occurred east of the wellhead, and a Notification of Release (NOR) was submitted to the NMOCD on April 28, 2025. Incident #nAPP2511834534 was assigned to the release.

On April 30, 2025, a Site Characterization Report and Remediation Workplan was submitted to NMOCD and ECO for Incident #s nSAP0225252743 and nAPP2511834534. The Workplan for each Incident # was approved by the NMOCD on May 27, 2025.

On August 25, 2025, a Remediation Summary and Closure Report was submitted to the NMOCD for Incident #s nSAP0225252743 and nAPP2511834534. On September 10, 2025, the NMOCD approved closure of Incident #nAPP2511834534, and rejected closure of Incident #nSAP0225252743 for the following reasons:

- Horizontal delineation was incomplete and did not meet the requirements of 19.15.29.11 NMAC.
- The C-141 is incomplete. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstances. Southwest Royalties has 90 days (December 9, 2025) to submit its appropriate or final remediation closure report.

On October 11, 2025, a Revised Remediation Summary and Deferral Request for Incident #nSAP0225252743 was submitted to the NMOCD and ECO. The Deferral Request was approved by ECO on October 30, 2025, and by NMOCD on December 9, 2025.

Closure of Incident #nAPP2511834534 was approved by ECO on October 28, 2025.

As of March 1, 2026, the NMOCD records show the following Stage for each Incident:

- nSAP0225252743: Deferral Request Approved, Pending submission of Remediation Closure Report from the operator
- nAPP2511834534: Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator

As Closure of each Incident was approved by both the NMOCD and ECO, the excavations were backfilled with clean soil from January 5 to January 9, 2026.

This Remediation Summary and Closure Report with Reclamation Report is being submitted to meet the requirements of 19.15.29.13 NMAC for each Incident.

3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well located within a 0.5-mile radius of the Site (CP 00761 POD 1) and no depth to groundwater is provided.

Two water wells (CP 00763 and L 09966) are located within a 1-mile radius of the Site, and a depth to groundwater for each well is reported to be greater than 50' below ground surface (bgs).

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 80 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded.

Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site. Figure 3 provides a USFWS map. Appendix A provides a copy of the NMOSE Point of Diversion Summary for well CO 00761 POD 1.

As the Riverine is located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable for the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial map (Figure 3).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
  - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.

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

3.3 Wetlands, Floodplain, and Karst Geology

A review of the USFWS wetlands map indicated the Site is not located within 300 feet of a wetland but is located within 80 feet of a Riverine. The New Mexico BLM karst potential map indicates the Site is located within a "low karst potential" area. Finally, a 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 3, 4, and 5 depict the USFWS map, the karst potential map, and the FEMA floodplain map respectively.

3.4 Closure Criteria Applicable to the Site

Based on the presence of a Riverine located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figure 6.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater is thought to be greater than 50' bgs; however, a Riverine is located approximately 80 feet from the southwest corner of the well pad. The assumed depth to groundwater will be less than 50' bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

5.0 Summary of Remediation Activities

As all sample locations were in areas that were previously disturbed, compliance with the Cultural Properties Protection (CPP) Rule did not apply, and an Archaeological Survey was not completed prior to the soil investigation. A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix B.

Remediation results were submitted to the NMOCD and ECO in a Remediation Summary and Closure Report for Incident #nAPP2511834534 on August 25, 2025, and in a Revised Remediation Summary and Deferral Request for Incident #nSAP0225252743 on October 11, 2025. Each report has been approved by both the NMOCD and ECO. Figure 6 shows the areas of remediation and the sample point locations.

Table 1 provides a summary of soil sample analytical results from the excavation for Incident #nAPP2511834534 and Table 2 provides a summary of soil sample analytical results from the excavation for Incident #nSAP0225252743. Each table includes a summary of the backfill soil results. Appendix D provides a copy of the laboratory report and chain-of-custody documentation.

Referring to Tables 1 and 2, concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria in each backfill sample.

6.0 Summary of Reclamation Activities

As Closure and/or deferral of each Incident was approved by both the NMOCD and ECO, the excavations were backfilled with 372 cubic yards of clean soil from January 5 to January 9, 2026. The impacted surface areas were restored to pre-release conditions, and the berm surrounding the tanks was reinforced to ensure containment of fluids if another release were to occur.

Backfill soil was obtained from a pit at GPS coordinates 33.316667, -103.586833. Soil samples (Backfill 1 and Backfill 2) were collected from the backfill soil on March 4, 2026. Samples were placed in clean glass sample jars, labeled, immediately placed on ice, and hand delivered to Eurofins in Midland, Texas for analysis of TPH, BTEX, and chlorides.

7.0 Closure Request

A combined total of 372 cy of soil was used to backfill the excavations at Incident #s nSAP0225252743 and nAPP2511834534, and to reinforce the berm at the Incident #nSAP0225252743.

As NMOCD has approved deferral of remediation below the storage tanks at Incident # nSAP0225252743, this Remediation Summary and Closure Report with Reclamation Report is being provided for that Site. This Report is also provided as the Reclamation Report for Incident #nAPP2511834534.

As all remediation and reclamation activities have been completed at Incident #s nSAP0225252743 and nAPP2511834534, Southwest Royalties respectfully requests final closure of each of those Sites.

8.0 Distribution

Copy 1: Environmental Compliance Office
ECO@nmslo.gov

Grain Environmental

TABLES

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017
INCIDENT #nAPP2511834534 (Well Pad)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
Confirmation Sidewall Samples													
S-1	07/24/25	0-1.5'	Excavated	<14.5	**188**	<15.1	**188**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**38.4**
S-1	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00158 J**	<0.00227	<0.00227	**5.15 J**
S-2	07/24/25	0-1.5'	Excavated	<14.5	**148**	<15.1	**148**	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**97.6**
S-2	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00126 J**	<0.00226	<0.00226	**4.23 J**
S-3	07/24/25	0-1.5'	In Situ	<14.5	**63.8**	<15.1	**63.8**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**16.4**
S-4	07/24/25	0-1.5'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**23.9**
S-5	07/24/25	0-1.5'	In Situ	<14.5	**27.2 J**	<15.1	**27.2 J**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.44 J**
S-6	07/24/25	0-1.5'	Excavated	<14.5	**119**	<15.1	**119**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**19.8**
S-6	08/07/25	0-2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	**0.00138 J**	<0.00229	<0.00229	**3.55 J**
S-7	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**55.5**
S-8	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**7.74 J**
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.6**
S-10	07/24/25	0-4'	Excavated	<14.5	**251**	<15.1	**251**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.94 J**
S-10	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**3.98 J**
S-11	07/24/25	0-4'	Excavated	<14.5	**297**	<15.1	**297**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**7.21 J**
S-11	08/07/25	0-4.5'	In Situ	<14.5	**17.8 J B**	**18.0 J**	**35.8 J**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**3.00 J**
S-12	07/24/25	0-4'	Excavated	<14.5	**591**	<15.1	**591**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**6.61 J**
S-12	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	**0.00158 J**	<0.00230	<0.00230	**3.09 J**
S-13	07/24/25	0-3'	In Situ	<14.5	**82.0**	<15.1	**82.0**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**15.7**
Confirmation Bottom Samples													
B-1	07/24/25	1.5'	In Situ	<14.5	**15.2 J**	<15.1	**15.2 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**14.8**
B-2	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**10.1**
B-3	07/24/25	1.5'	Excavated	<14.5	**679**	<15.1	**679**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**493**
B-3	08/07/25	2'	In Situ	<14.5	**18.1 J B**	**17.0 J**	**35.1 J**	<0.00138	<0.00199	**0.00154 J**	<0.00227	<0.00227	**4.38 J**
B-4	07/24/25	1.5'	Excavated	<14.5	**676**	<15.1	**676**	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**10.7**
B-4	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**4.20 J**
B-5	07/24/25	1.5'	Excavated	<14.5	**2,480**	<15.1	**2,480**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**879**
B-5	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00187 J**	<0.00229	<0.00229	**3.43 J**
B-6	07/24/25	1.5'	In Situ	<14.5	**31.3 J**	<15.1	**31.3 J**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**17.4**
B-7	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**55.3**
B-8	07/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**5.88 J**
B-9	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.5**
B-10	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**8.03 J**
B-11	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**6.48 J**
B-12	07/24/25	4'	Excavated	<14.5	**132**	<15.1	**132**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**9.87 J**
B-12	08/07/25	4.5'	In Situ	<14.5	<15.1	**18.7 J**	**18.7 J**	<0.00139	<0.00200	**0.00195 J**	<0.00229	<0.00229	**4.33 J**
B-13	07/24/25	4'	Excavated	<14.5	**203**	<15.1	**203**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**13.9**
B-13	08/07/25	4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00220**	<0.00229	<0.00229	**3.30 J**
B-14	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**5.80 J**
B-15	07/24/25	4'	In Situ	<14.5	**99.2**	<15.1	**99.2**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**4.23 J**
Backfill Soil Sample													
Backfill 2	03/04/26	---	Backfilled	**50.0**	**20**	<50.0	**70**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**50.0**

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.
10. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
11. B: Compound was found in the blank and sample.

<

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017
INCIDENT #nAPP2511834534 (Well Pad)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
Confirmation Sidewall Samples													
S-1	07/24/25	0-1.5'	Excavated	<14.5	**188**	<15.1	**188**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**38.4**
S-1	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00158 J**	<0.00227	<0.00227	**5.15 J**
S-2	07/24/25	0-1.5'	Excavated	<14.5	**148**	<15.1	**148**	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**97.6**
S-2	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00126 J**	<0.00226	<0.00226	**4.23 J**
S-3	07/24/25	0-1.5'	In Situ	<14.5	**63.8**	<15.1	**63.8**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**16.4**
S-4	07/24/25	0-1.5'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**23.9**
S-5	07/24/25	0-1.5'	In Situ	<14.5	**27.2 J**	<15.1	**27.2 J**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.44 J**
S-6	07/24/25	0-1.5'	Excavated	<14.5	**119**	<15.1	**119**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**19.8**
S-6	08/07/25	0-2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	**0.00138 J**	<0.00229	<0.00229	**3.55 J**
S-7	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**55.5**
S-8	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**7.74 J**
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.6**
S-10	07/24/25	0-4'	Excavated	<14.5	**251**	<15.1	**251**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.94 J**
S-10	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**3.98 J**
S-11	07/24/25	0-4'	Excavated	<14.5	**297**	<15.1	**297**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**7.21 J**
S-11	08/07/25	0-4.5'	In Situ	<14.5	**17.8 J B**	**18.0 J**	**35.8 J**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**3.00 J**
S-12	07/24/25	0-4'	Excavated	<14.5	**591**	<15.1	**591**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**6.61 J**
S-12	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	**0.00158 J**	<0.00230	<0.00230	**3.09 J**
S-13	07/24/25	0-3'	In Situ	<14.5	**82.0**	<15.1	**82.0**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**15.7**
Confirmation Bottom Samples													
B-1	07/24/25	1.5'	In Situ	<14.5	**15.2 J**	<15.1	**15.2 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**14.8**
B-2	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**10.1**
B-3	07/24/25	1.5'	Excavated	<14.5	**679**	<15.1	**679**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**493**
B-3	08/07/25	2'	In Situ	<14.5	**18.1 J B**	**17.0 J**	**35.1 J**	<0.00138	<0.00199	**0.00154 J**	<0.00227	<0.00227	**4.38 J**
B-4	07/24/25	1.5'	Excavated	<14.5	**676**	<15.1	**676**	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**10.7**
B-4	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**4.20 J**
B-5	07/24/25	1.5'	Excavated	<14.5	**2,480**	<15.1	**2,480**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**879**
B-5	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00187 J**	<0.00229	<0.00229	**3.43 J**
B-6	07/24/25	1.5'	In Situ	<14.5	**31.3 J**	<15.1	**31.3 J**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**17.4**
B-7	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**55.3**
B-8	07/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**5.88 J**
B-9	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.5**
B-10	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**8.03 J**
B-11	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**6.48 J**
B-12	07/24/25	4'	Excavated	<14.5	**132**	<15.1	**132**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**9.87 J**
B-12	08/07/25	4.5'	In Situ	<14.5	<15.1	**18.7 J**	**18.7 J**	<0.00139	<0.00200	**0.00195 J**	<0.00229	<0.00229	**4.33 J**
B-13	07/24/25	4'	Excavated	<14.5	**203**	<15.1	**203**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**13.9**
B-13	08/07/25	4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00220**	<0.00229	<0.00229	**3.30 J**
B-14	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**5.80 J**
B-15	07/24/25	4'	In Situ	<14.5	**99.2**	<15.1	**99.2**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**4.23 J**
Backfill Soil Sample													
Backfill 2	03/04/26	---	Backfilled	**50.0**	**20**	<50.0	**70**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**50.0**

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.
10. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
11. B: Compound was found in the blank and sample.

<

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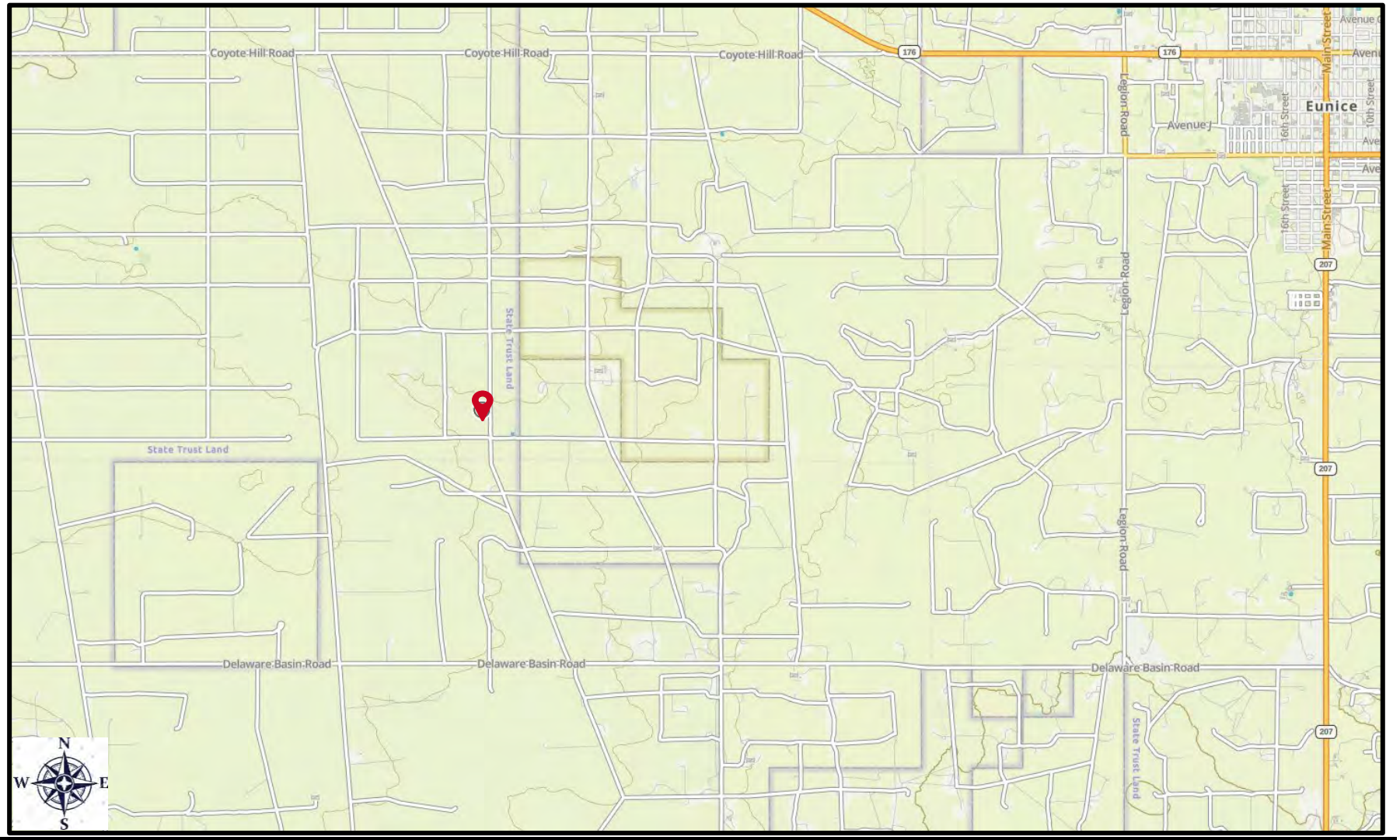
FIGURES



LEGEND:

Site Location

Figure 1
Site Location Map
Southwest Royalties, Inc.
State J 2 #017
Lea County, New Mexico

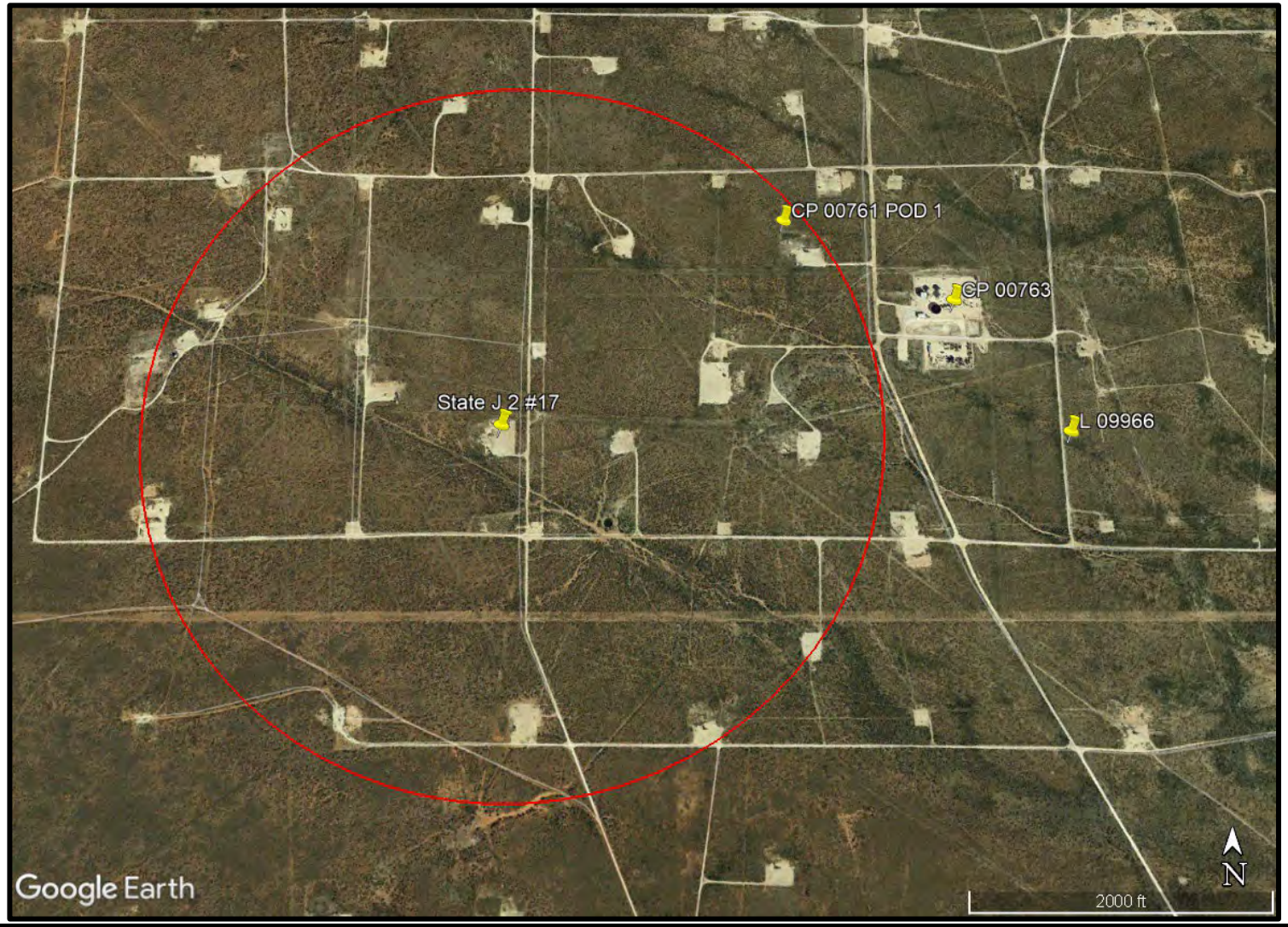
Drafted by: CC | Checked by: CC

Draft: Feb. 6, 2025

GPS: 32.4172592° -103.2306595°

Base Map from GAIA Topo

Grain Environmental



LEGEND:

Site and Water Well Locations

0.5-Mile Radius

Base map from Google Earth Pro

Figure 2

Wellhead Protection Area Map

Southwest Royalties, Inc.

State J 2 #017

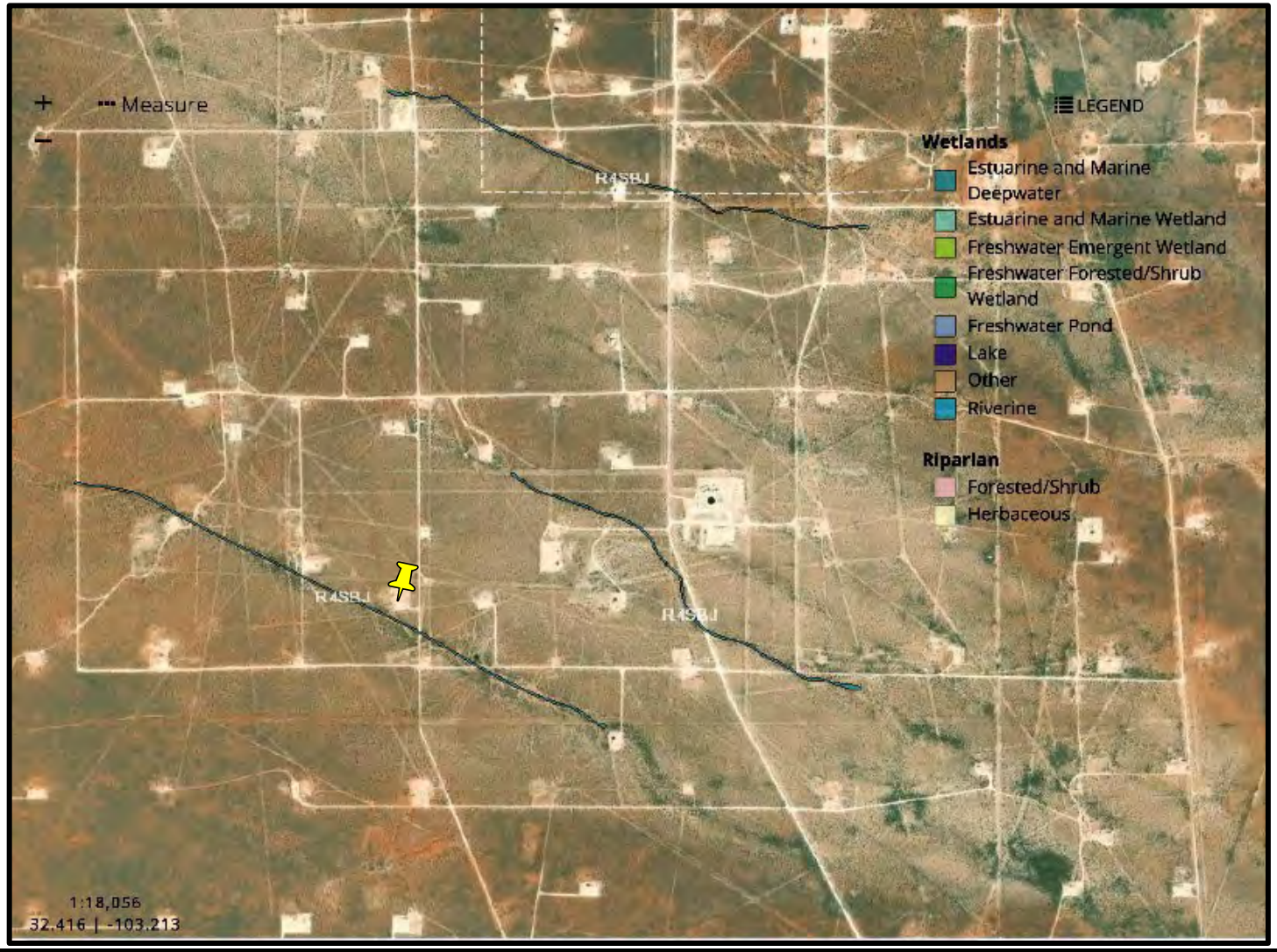
Lea County, New Mexico

Drafted by: CC | Checked by: CC

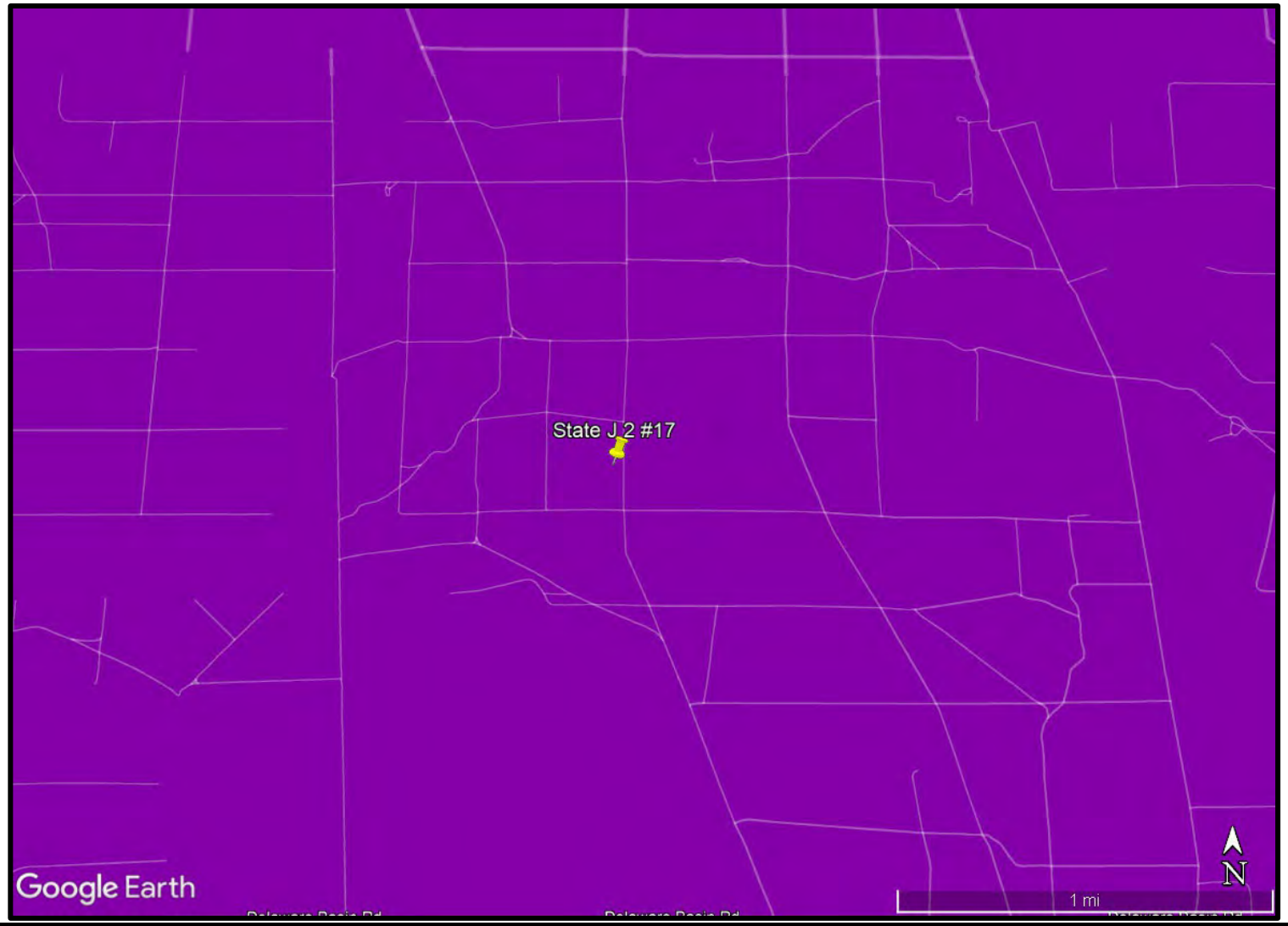
Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°

Grain Environmental



LEGEND: Site Location Base map from US Fish & Wildlife Service	**Figure 3** National Wetland Inventory Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: April 6, 2025 GPS: 32.4172592° -103.2306595°



LEGEND:

- Low Karst Potential
- Medium Karst Potential
- High Karst Potential

Base map from Google Earth Pro and BLM

Figure 4

Karst Potential Map

Southwest Royalties, Inc.

State J 2 #017

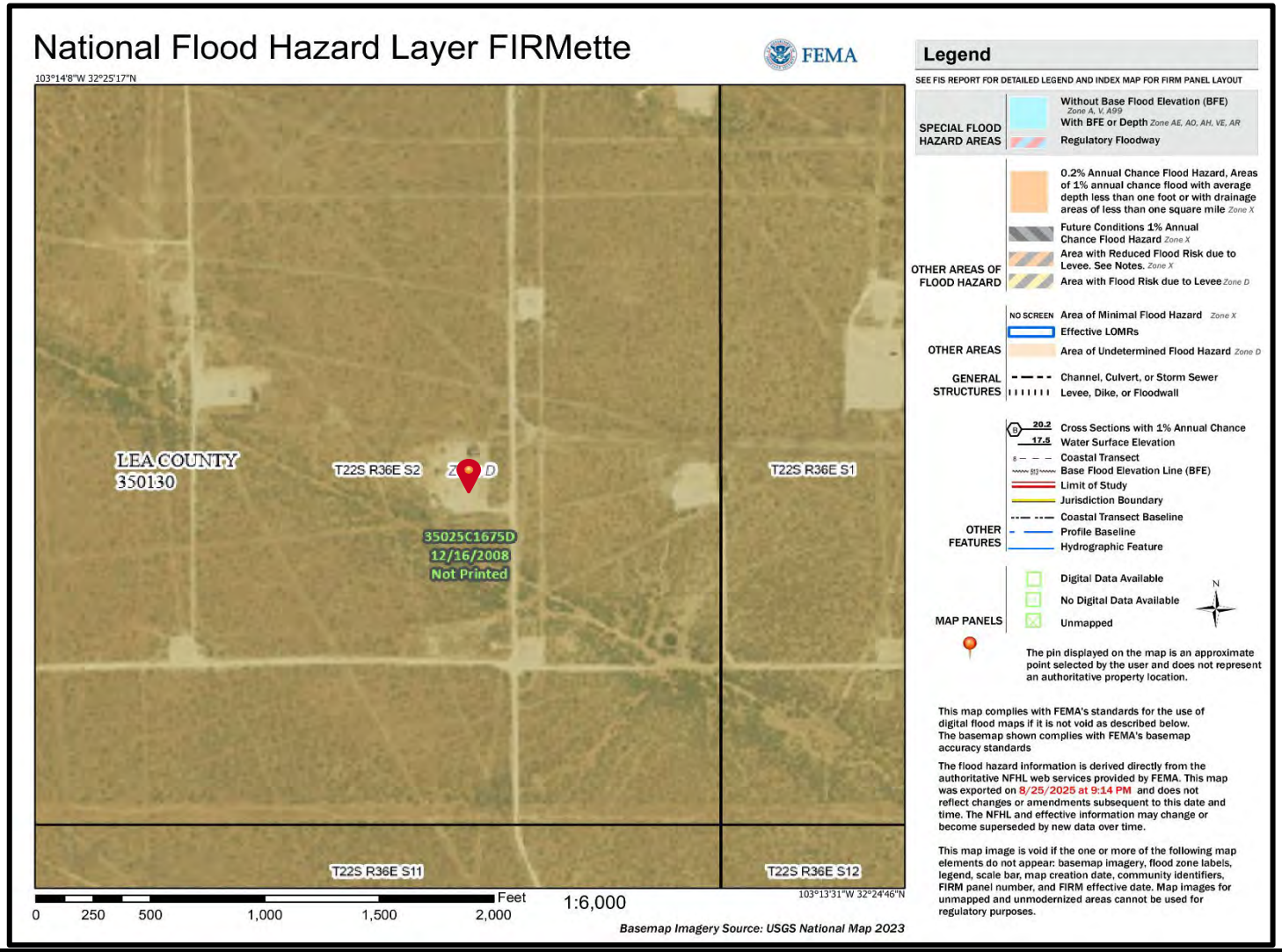
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°

Grain Environmental



LEGEND:

Site Location

Figure 5
FEMA Floodplain Map
Southwest Royalties, Inc.
State J 2 #017
Lea County, New Mexico

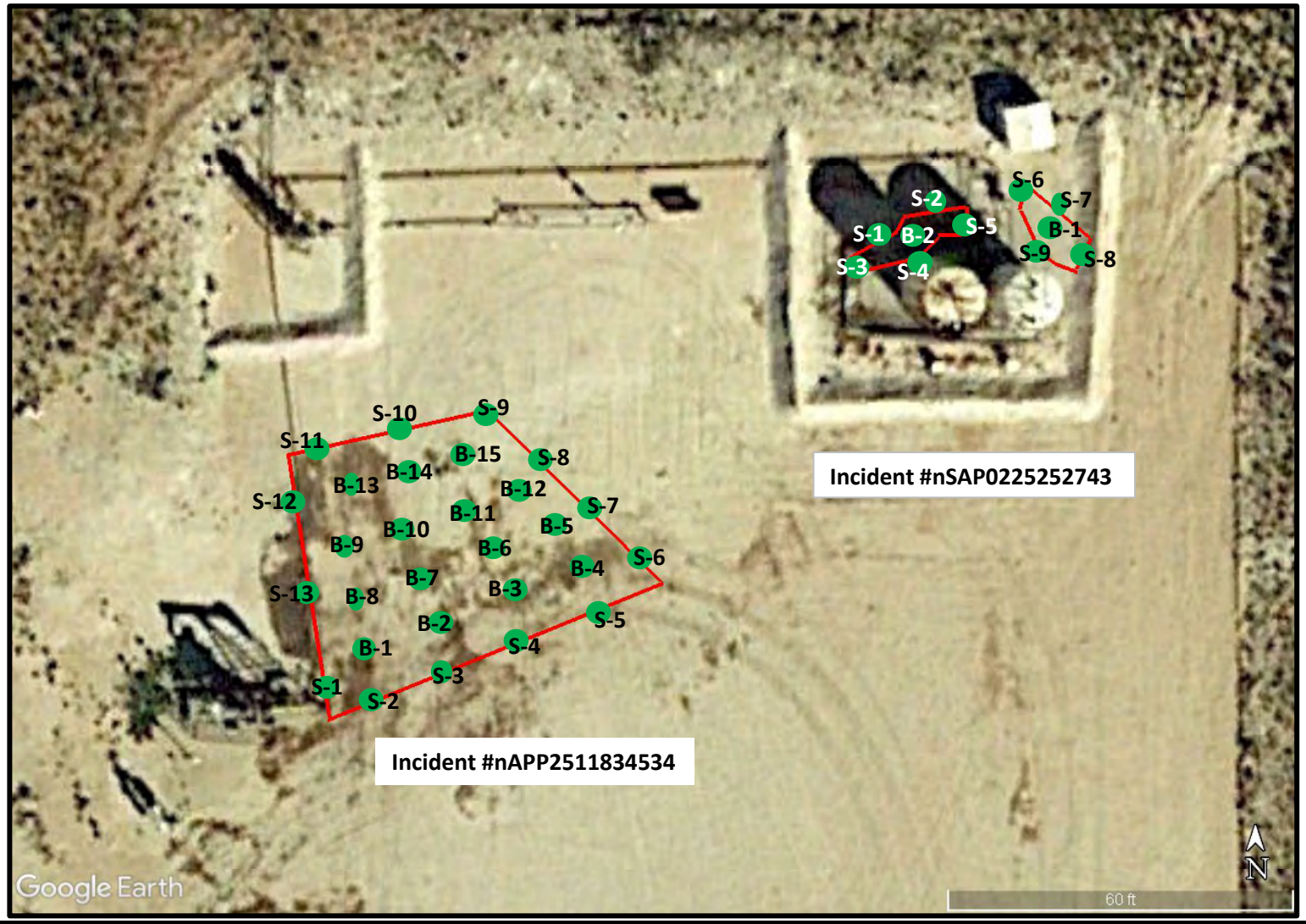
Drafted by: CC | Checked by: CC

Draft: August 25, 2025

GPS: 32.4172592° -103.2306595°

Base Map from FEMA

Grain Environmental



LEGEND:

S-1 Sample Location with Sample Number

Excavation Boundary

Figure 6

Sample Location Map

Southwest Royalties, Inc.

State J 2 #017

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Aug. 24, 2025

GPS: 32.4172592° -103.2306595°

Base Map from Google Earth (2017)

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Appendix A: NMOSE Point of Diversion Summary

Water Right Summary

get image list

WR File Number:	CP 00761	**Subbasin:**	CP	**Cross Reference:**	
Primary Purpose:	SRO SECONDARY RECOVERY OF OIL				
Primary Status:	NOI Notice of Intention				
Total Acres:		**Subfile:**		**Header:**	
Total Diversion:	0.000	**Cause/Case:**			
Owner:	CHEVRON USA INC	**Owner Class:**	Owner		

Documents on File

(acre-f

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion
get images	601953	NOIAP	1991-05-06	NOI	MTR	CP 00761	T	0.000	1130.000

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
CP 00761 POD1		Artesian	SE	SW	NW	01	22S	36E	666964.0	3588569.0 *		

*** UTM location was derived from PLSS - see Help**

Priority Summary

Priority	Status	Acres	Diversion	POD Number	Source
1991-05-06	NOI	0.000	0.000	CP 00761 POD1	Artesian

Place of Use

Q256	Q64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0.000	1130.000		SRO	1991-05-06	NOI	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	1130.000		SRO	1991-05-06	GW	

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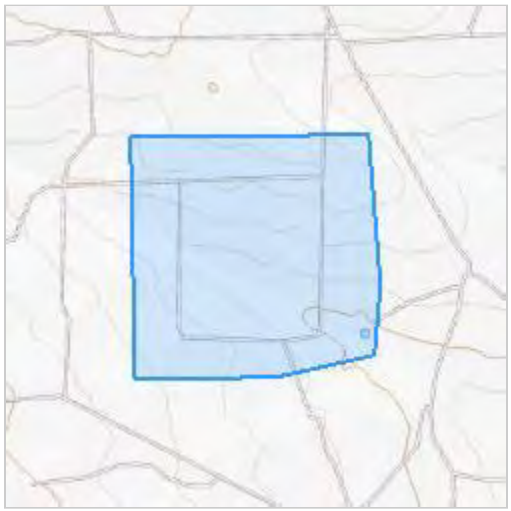
Appendix B: Biological Desktop Review

PROJECT SUMMARY

Project Code: 2025-0079048
Project Name: State J 2 #017
Project Type: Non-NPL Site Remediation
Project Description: Soil remediation
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@32.4174195,-103.23131530779142,14z



Counties: Lea County, New Mexico

BIRDS

NAME	STATUS
Lesser Prairie-chicken *Tympanuchus pallidicinctus* Population: Southern DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon *Falco femoralis septentrionalis* Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non-Essential

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

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Appendix C: Photographic Documentation

APPENDIX C
STATE J 2 #017

View to NW of backfilled excavation at wellhead (nAPP2511834534).

View to NW of backfilled excavation at wellhead (nAPP2511834534).

View to SW of backfilled excavation at wellhead (nAPP2511834534).

View to E of backfilled excavations at battery (nSAP0225252743).

View to NW of backfilled excavations at battery (nSAP0225252743).

View to S of backfilled excavations at battery (nSAP0225252743).

View to SE of backfilled excavations at battery (nSAP0225252743).

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Appendix D: Laboratory Report and Chain-of-Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/13/2026 9:33:08 AM

JOB DESCRIPTION

State J 2 #17
Lea County NM

JOB NUMBER

880-69227-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

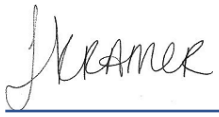
Eurofins Midland

Job Notes

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

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

Authorization



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3/13/2026 9:33:08 AM

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

Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-69227-1
SDG: Lea County NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: State J 2 #17

Job ID: 880-69227-1

Job ID: 880-69227-1 Eurofins Midland

Job Narrative
880-69227-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 3/5/2026 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.5°C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: Backfill 2 (880-69227-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-134146 and analytical batch 880-134131 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 8015B NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-134645 and analytical batch 880-134695 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-134645 and analytical batch 880-134695 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-134645/3-A), (890-9601-A-3-E) and (890-9601-A-3-F MS). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Client Sample ID: Backfill 1

Date Collected: 03/04/26 08:00
Date Received: 03/05/26 14:47

Lab Sample ID: 880-69227-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/26 14:43	03/08/26 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/07/26 14:43*	*03/08/26 15:52*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/07/26 14:43*	*03/08/26 15:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/26 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**70**		50.0		mg/Kg			03/12/26 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**50.0**	***+**	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1
Diesel Range Organics (Over C10-C28)	**20**	***+ *1**	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/11/26 17:12*	*03/12/26 19:31*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/11/26 17:12*	*03/12/26 19:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.0**		9.96		mg/Kg			03/09/26 19:20	1

Client Sample ID: Backfill 2

Date Collected: 03/04/26 08:05
Date Received: 03/05/26 14:47

Lab Sample ID: 880-69227-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/26 14:43	03/08/26 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*03/07/26 14:43*	*03/08/26 16:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/07/26 14:43*	*03/08/26 16:12*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Client Sample ID: Backfill 2

Date Collected: 03/04/26 08:05
Date Received: 03/05/26 14:47

Lab Sample ID: 880-69227-2

Matrix: Solid

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			03/08/26 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/12/26 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/11/26 17:12*	*03/12/26 19:50*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/11/26 17:12*	*03/12/26 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.8**		10.0		mg/Kg			03/09/26 19:25	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County 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)
880-69107-A-1-B MS	Matrix Spike	118	97
880-69107-A-1-C MSD	Matrix Spike Duplicate	130	89
880-69227-1	Backfill 1	116	85
880-69227-2	Backfill 2	132 S1+	90
LCS 880-134146/1-A	Lab Control Sample	112	94
LCSD 880-134146/2-A	Lab Control Sample Dup	120	94
MB 880-134091/5-A	Method Blank	117	91
MB 880-134146/5-A	Method Blank	116	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-69227-1	Backfill 1	99	111
880-69227-2	Backfill 2	92	102
890-9601-A-3-F MS	Matrix Spike	137 S1+	121
890-9601-A-3-G MSD	Matrix Spike Duplicate	89	81
LCS 880-134645/2-A	Lab Control Sample	121	112
LCSD 880-134645/3-A	Lab Control Sample Dup	153 S1+	138 S1+
MB 880-134645/1-A	Method Blank	119	129

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-134091/5-A
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/26 12:33	03/07/26 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/06/26 12:33*	*03/07/26 19:47*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/06/26 12:33*	*03/07/26 19:47*	*1*

Lab Sample ID: MB 880-134146/5-A
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/26 14:43	03/08/26 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/07/26 14:43*	*03/08/26 10:28*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/07/26 14:43*	*03/08/26 10:28*	*1*

Lab Sample ID: LCS 880-134146/1-A
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Toluene	0.100	0.09546		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1079		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-134146/2-A
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09532		mg/Kg		95	70 - 130	8	35

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-134146/2-A
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09008		mg/Kg		90	70 - 130	6	35
Ethylbenzene			0.100	0.1022		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2105		mg/Kg		105	70 - 130	4	35
o-Xylene			0.100	0.1070		mg/Kg		107	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-69107-A-1-B MS
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 134146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09385		mg/Kg		94	70 - 130
Toluene	<0.00200	U F1	0.100	0.07944		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08119		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1660		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.08360		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-69107-A-1-C MSD
Matrix: Solid
Analysis Batch: 134131

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 134146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07532		mg/Kg		75	70 - 130	22	35
Toluene	<0.00200	U F1	0.100	0.06246	F1	mg/Kg		62	70 - 130	24	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.05600	F1 F2	mg/Kg		56	70 - 130	37	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1162	F1	mg/Kg		58	70 - 130	35	35
o-Xylene	<0.00200	U F1	0.100	0.06332	F1	mg/Kg		63	70 - 130	28	35

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

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

Lab Sample ID: MB 880-134645/1-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1

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QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-134645/1-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/11/26 17:12*	*03/12/26 11:55*	*1*
o-Terphenyl	*129*		*70 - 130*	*03/11/26 17:12*	*03/12/26 11:55*	*1*

Lab Sample ID: LCS 880-134645/2-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134645

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1212		mg/Kg		121	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1147		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*121*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-134645/3-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134645

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1473	*+	mg/Kg		147	70 - 130	19	20
Diesel Range Organics (Over C10-C28)			1000	1475	*+ *1	mg/Kg		147	70 - 130	25	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*153*	*S1+*	*70 - 130*
o-Terphenyl	*138*	*S1+*	*70 - 130*

Lab Sample ID: 890-9601-A-3-F MS
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 134645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1 F2	1000	934.7		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1 F2	1000	1060		mg/Kg		104	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*137*	*S1+*	*70 - 130*
o-Terphenyl	*121*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

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

Lab Sample ID: 890-9601-A-3-G MSD
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 134645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1 F2	1000	671.7	F1 F2	mg/Kg		67	70 - 130	33	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+ *1 F2	1000	723.0	F2	mg/Kg		71	70 - 130	38	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-134224/1-A
Matrix: Solid
Analysis Batch: 134282

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			03/09/26 18:03	1

Lab Sample ID: LCS 880-134224/2-A
Matrix: Solid
Analysis Batch: 134282

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.5		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-134224/3-A
Matrix: Solid
Analysis Batch: 134282

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.1		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-69227-2 MS
Matrix: Solid
Analysis Batch: 134282

Client Sample ID: Backfill 2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.8		250	260.6		mg/Kg		100	90 - 110

Lab Sample ID: 880-69227-2 MSD
Matrix: Solid
Analysis Batch: 134282

Client Sample ID: Backfill 2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.8		250	261.2		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

GC VOA

Prep Batch: 134091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-134091/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 134131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8021B	134146
880-69227-2	Backfill 2	Total/NA	Solid	8021B	134146
MB 880-134091/5-A	Method Blank	Total/NA	Solid	8021B	134091
MB 880-134146/5-A	Method Blank	Total/NA	Solid	8021B	134146
LCS 880-134146/1-A	Lab Control Sample	Total/NA	Solid	8021B	134146
LCSD 880-134146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	134146
880-69107-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	134146
880-69107-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	134146

Prep Batch: 134146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	5035	
880-69227-2	Backfill 2	Total/NA	Solid	5035	
MB 880-134146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-134146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-134146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-69107-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-69107-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 134316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	Total BTEX	
880-69227-2	Backfill 2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 134645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015NM Prep	
880-69227-2	Backfill 2	Total/NA	Solid	8015NM Prep	
MB 880-134645/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-134645/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-134645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9601-A-3-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9601-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 134695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015B NM	134645
880-69227-2	Backfill 2	Total/NA	Solid	8015B NM	134645
MB 880-134645/1-A	Method Blank	Total/NA	Solid	8015B NM	134645
LCS 880-134645/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	134645
LCSD 880-134645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	134645
890-9601-A-3-F MS	Matrix Spike	Total/NA	Solid	8015B NM	134645
890-9601-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	134645

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

GC Semi VOA

Analysis Batch: 134761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015 NM	
880-69227-2	Backfill 2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 134224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Soluble	Solid	DI Leach	
880-69227-2	Backfill 2	Soluble	Solid	DI Leach	
MB 880-134224/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-134224/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-134224/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-69227-2 MS	Backfill 2	Soluble	Solid	DI Leach	
880-69227-2 MSD	Backfill 2	Soluble	Solid	DI Leach	

Analysis Batch: 134282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Soluble	Solid	300.0	134224
880-69227-2	Backfill 2	Soluble	Solid	300.0	134224
MB 880-134224/1-A	Method Blank	Soluble	Solid	300.0	134224
LCS 880-134224/2-A	Lab Control Sample	Soluble	Solid	300.0	134224
LCSD 880-134224/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	134224
880-69227-2 MS	Backfill 2	Soluble	Solid	300.0	134224
880-69227-2 MSD	Backfill 2	Soluble	Solid	300.0	134224

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Client Sample ID: Backfill 1

Lab Sample ID: 880-69227-1

Date Collected: 03/04/26 08:00
Matrix: Solid
Date Received: 03/05/26 14:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	134146	03/07/26 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	134131	03/08/26 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			134316	03/08/26 15:52	SA	EET MID
Total/NA	Analysis	8015 NM		1			134761	03/12/26 19:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	134645	03/11/26 17:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	134695	03/12/26 19:31	SA	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	134224	03/09/26 11:10	SA	EET MID
Soluble	Analysis	300.0		1			134282	03/09/26 19:20	CS	EET MID

Client Sample ID: Backfill 2

Lab Sample ID: 880-69227-2

Date Collected: 03/04/26 08:05
Matrix: Solid
Date Received: 03/05/26 14:47

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	134146	03/07/26 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	134131	03/08/26 16:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			134316	03/08/26 16:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			134761	03/12/26 19:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	134645	03/11/26 17:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	134695	03/12/26 19:50	SA	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	134224	03/09/26 11:10	SA	EET MID
Soluble	Analysis	300.0		1			134282	03/09/26 19:25	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County 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: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-69227-1	Backfill 1	Solid	03/04/26 08:00	03/05/26 14:47	Texas
880-69227-2	Backfill 2	Solid	03/04/26 08:05	03/05/26 14:47	Texas

eurofins | Environment Testing Xenco

Chain of Custody

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

880-69227 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 East 17th Street	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, Texas 79710-3570
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	☑ Routine ☐ Rush
Project Number:	NA		
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	NA		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-2.3
Total Containers:		Corrected Temperature:	-2.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 M	BTEX	Chlorides	Sample Comments
Backfill 1	S	3/4/2026	0800	---	C	1		X	X	X	
Backfill 2	S	3/4/2026	0805	---	C	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		3.5.26 1447	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-69227-1
SDG Number: Lea County NM

Login Number: 69227
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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

Remediation Summary and Closure Report

August 25, 2025

State J 2 #017
30-025-33277
Incident #nSAP0225252743 and
Incident #nAPP2511834534
Lease B0-1534
Lea County, New Mexico

Prepared For:

Southwest Royalties, Inc.
P.O. Box 53570
Midland, Texas 79710

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

Cynthia K. Crain, P.G.

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TABLE

Table 1: Summary of Soil Sample Analytical Results (Incident #nAPP2511834534)
Table 2: Summary of Soil Sample Analytical Results (Incident #nSAP0225252743)

FIGURES

Figure 1 – Site Location Map
Figure 2 – Wellhead Protection Area Map
Figure 3 – National Wetlands Inventory Map
Figure 4 – Karst Potential Map
Figure 5 – Sample Location Map

APPENDICES

Appendix A – NMOSE Point of Diversion Summary
Appendix B – Biological Desktop Review
Appendix C – Laboratory Reports and Chain-of-Custody Documentation
Appendix D – Photographic Documentation
Appendix E – Waste Manifests

1.0 Introduction

On behalf of Southwest Royalties, Inc. (SWR), Crain Environmental (CE) has prepared this Remediation Summary and Closure Report for historical releases at the State J 2 #017 (Site), located in Unit Letter I, Section 2, Township 22 South, Range 36 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.4172592, -103.2306595. The property surface rights are owned by the State of New Mexico (Lease BO-1534).

The State J 2 #017 is located approximately 4.5 miles southwest of Eunice, New Mexico, in an area of oil and gas activity and cattle grazing. The Site can be accessed by traveling south from Eunice, New Mexico on Legion Road for 3 miles to Delaware Basin Road. Travel west on Delaware Basin Road for 2.74 miles and turn north on the lease road. Travel north for 1.27 miles to the Site. There are no locked gates or other access issues. The attached Figure 1 shows the Site location.

2.0 Background

At the request of the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO), a soil investigation was conducted on the well pad where historical aerial photos indicated a past release, and at the tank battery where an open New Mexico Oil Conservation Division (NMOCD) Incident (#nSAP0225252743) was located.

The soil investigation indicated that a historical release had occurred east of the wellhead, and a Notification of Release (NOR) was submitted to the NMOCD on April 28, 2025. Incident #nAPP2511834534 was assigned to the release.

On April 30, 2025, a Site Characterization Report and Remediation Workplan was submitted to NMOCD and ECO for Incident #s nSAP0225252743 and nAPP2511834534. The Workplan for each Incident # was approved by the NMOCD on May 27, 2025.

This Remediation Summary and Closure Report has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) and is being submitted for Incident #s nSAP0225252743 and nAPP2511834534 on the due date of August 25, 2025.

3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).

- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well located within a 0.5-mile radius of the Site (CP 00761 POD 1) and no depth to groundwater is provided. Two water wells (CP 00763 and L 09966) are located within a 1-mile radius of the Site, and a depth to groundwater for each well is reported to be greater than 50' below ground surface (bgs).

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 80 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded.

Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site. Figure 3 provides a USFWS map. Appendix A provides a copy of the NMOSE Point of Diversion Summary for well CO 00761 POD 1.

As the Riverine is located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable for the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial map (Figure 3).

- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
    - The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
    - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
    - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
    - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
    - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
    - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the USFWS wetlands map indicated the Site is not located within 300 feet of a wetland but is located within 80 feet of a Riverine. The New Mexico BLM karst potential map indicates the Site is located within a “low karst potential” area. Finally, a 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 3, 4, and 5 depict the USFWS map, the karst potential map, and the FEMA floodplain map respectively.

3.4 Closure Criteria Applicable to the Site

Based on the presence of a Riverine located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figure 6.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater is thought to be greater than 50’ bgs; however, a Riverine is located approximately 80 feet from the southwest corner of the well pad. The assumed depth to groundwater will be less than 50’ bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

5.0 Summary of Remediation Activities

As all sample locations were in areas that were previously disturbed, compliance with the Cultural Properties Protection (CPP) Rule did not apply, and an Archaeological Survey was not completed prior to the soil investigation. A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix B.

5.1 Remediation Results – Incident #nAPP2511834534

Following approval of the Site Characterization Report and Remediation Workplan on May 27, 2025, excavation was conducted until five-point composite samples were collected from the bottom (B-1 through B-15) and sidewalls (S-1 through S-13) of the excavation on July 24, 2025.

All confirmation samples 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 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chlorides by EPA Method 300.0.

Table 1 provides a summary of the laboratory results. Figure 5 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, concentrations of benzene and total 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 sidewall samples S-1 (188 mg/kg), S-2 (148 mg/kg), S-6 (119 mg/kg), S-10 (251 mg/kg), S-11 (297 mg/kg), S-12 (591 mg/kg), and bottom samples B-3 (679 mg/kg), B-4 (676 mg/kg), B-5 (2,480 mg/kg), B-12 (132 mg/kg), and B-13 (203 mg/kg). Concentrations of chlorides were reported below the Closure Criteria in all samples except bottom sample B-5 (879 mg/kg).

Excavation continued at sample locations reporting exceedances until five-point composite samples were collected on August 7, 2025, from each location. All confirmation samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 5 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, all final samples collected from the sidewalls and bottom of the excavation reported TPH, BTEX, and chloride concentrations below the Closure Criteria.

The final excavation covered a surface area of 2,193 square feet (ft^2).

5.2 Remediation Results – Incident #nSAP0225252743

Following approval of the Site Characterization Report and Remediation Workplan on May 27, 2025, excavation was conducted until five-point composite samples were collected from the bottom (B-1 and B-2) and sidewalls (S-1 through S-9) of the excavations on July 24, 2025.

All confirmation samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 5 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, concentrations of benzene and total 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 sidewall samples S-5 (2,870 mg/kg), S-7 (164 mg/kg), S-8 (121 mg/kg), and bottom sample B-1 (121 mg/kg). Concentrations of chlorides were reported above the Closure Criteria in sidewall samples S-1 (1,600 mg/kg) and S-4 (1,350 mg/kg).

Excavation could not be continued at sidewall sample points S-1, S-4, and S-5 because of the proximity to active storage tanks and steel piping. Horizontal delineation of TPH, BTEX, and chloride concentrations is provided by sample points S-2, S-3, S-6, and S-9, and vertical delineation of TPH, BTEX, and chloride concentrations is provided by sample point B-2. The concentrations of TPH and chloride remaining in place do not pose an imminent risk to human health, the environment, or groundwater, as the source of the release has been repaired, and a major portion of affected soil has been removed.

Pursuant to 19.15.29.12 (C) (2) NMAC, Southwest Royalties respectfully requests the deferral of final remediation below the storage tanks and steel piping until time of abandonment of the tank battery.

Excavation was continued at sidewall sample locations S-7 and S-8 and bottom sample B-1 until five-point composite samples were collected on August 7, 2025, from each of those locations. All confirmation samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 5 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, all final samples collected from the sidewalls and bottom of the east excavation reported TPH, BTEX, and chloride concentrations below the Closure Criteria.

The final west excavation covered a surface area of 147 ft^2 and the final east excavation covered a surface area of 105 ft^2.

From June 30 to July 7, 2025, 280 cubic yards (cy) of soil excavated from both Incident excavations were hauled to Lea Land, LLC Surface Waste Landfill (Lea Land) for disposal, and on August 25, 2025, an additional 52 cy of soil from both Incident excavations were hauled to Lea Land. A total of 332 cy of soil excavated from both Incident areas were hauled to disposal. Waste Manifests are provided in Appendix E.

5.3 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Numbers 880-60810-1, 880-61300-1, 880-60809-1, and 880-61299-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

6.0 Closure and Deferral Request

A combined total of 332 cy of soil from Incident #s nSAP0225252743 and nAPP2511834534 were excavated and hauled to disposal at Lea Land.

All confirmation samples collected from the bottom and sidewalls of the excavation associated with **Incident # nAPP2522834534** reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria, and the final excavation covered a surface area of 2,193 ft^2. Southwest Royalties respectfully requests NMOCD Closure of **Incident # nAPP2522834534**.

All impacted soil that could be safely removed from the tank battery area at **Incident # nSAP0225252743** was excavated and disposed. The final west excavation covered a surface area of 147 ft^2 and the final east excavation covered a surface area of 105 ft^2.

Excavation could not be continued at sidewall sample points S-1, S-4, and S-5 because of the proximity to active storage tanks and steel piping. Horizontal delineation of TPH, BTEX, and chloride concentrations is provided by sample points S-2, S-3, S-6, and S-9, and vertical delineation of TPH, BTEX, and chloride concentrations is provided by sample point B-2. The concentrations of TPH and chloride remaining in place do not pose an imminent risk to human health, the environment, or groundwater as the source of the release has been repaired, and a major portion of affected soil has been removed.

Pursuant to 19.15.29.12 (C) (2) NMAC, Southwest Royalties respectfully requests the deferral of final remediation below the storage tanks and steel piping until time of abandonment of the tank battery.

Upon NMOCD and ECO approval of this Closure Report for each Incident #, the excavations will be backfilled to grade with non-impacted similar material obtained for a nearby source. Prior to use, a five-point composite sample will be collected from the backfill material, and will be analyzed for TPH, BTEX, and chlorides.

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.

7.0 Distribution

Copy 1: Environmental Compliance Office
ECO@nmslo.gov

Grain Environmental

TABLES

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017
INCIDENT #nAPP2511834534 (Well Pad)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
Confirmation Sidewall Samples													
S-1	07/24/25	0-1.5'	Excavated	<14.5	**188**	<15.1	**188**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**38.4**
S-1	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00158 J**	<0.00227	<0.00227	**5.15 J**
S-2	07/24/25	0-1.5'	Excavated	<14.5	**148**	<15.1	**148**	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**97.6**
S-2	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	**0.00126 J**	<0.00226	<0.00226	**4.23 J**
S-3	07/24/25	0-1.5'	In Situ	<14.5	**63.8**	<15.1	**63.8**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**16.4**
S-4	07/24/25	0-1.5'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**23.9**
S-5	07/24/25	0-1.5'	In Situ	<14.5	**27.2 J**	<15.1	**27.2 J**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.44 J**
S-6	07/24/25	0-1.5'	Excavated	<14.5	**119**	<15.1	**119**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**19.8**
S-6	08/07/25	0-2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	**0.00138 J**	<0.00229	<0.00229	**3.55 J**
S-7	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**55.5**
S-8	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**7.74 J**
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.6**
S-10	07/24/25	0-4'	Excavated	<14.5	**251**	<15.1	**251**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**7.94 J**
S-10	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**3.98 J**
S-11	07/24/25	0-4'	Excavated	<14.5	**297**	<15.1	**297**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**7.21 J**
S-11	08/07/25	0-4.5'	In Situ	<14.5	**17.8 J B**	**18.0 J**	**35.8 J**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**3.00 J**
S-12	07/24/25	0-4'	Excavated	<14.5	**591**	<15.1	**591**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**6.61 J**
S-12	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	**0.00158 J**	<0.00230	<0.00230	**3.09 J**
S-13	07/24/25	0-3'	In Situ	<14.5	**82.0**	<15.1	**82.0**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**15.7**
Confirmation Bottom Samples													
B-1	07/24/25	1.5'	In Situ	<14.5	**15.2 J**	<15.1	**15.2 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**14.8**
B-2	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**10.1**
B-3	07/24/25	1.5'	Excavated	<14.5	**679**	<15.1	**679**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**493**
B-3	08/07/25	2'	In Situ	<14.5	**18.1 J B**	**17.0 J**	**35.1 J**	<0.00138	<0.00199	**0.00154 J**	<0.00227	<0.00227	**4.38 J**
B-4	07/24/25	1.5'	Excavated	<14.5	**676**	<15.1	**676**	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**10.7**
B-4	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**4.20 J**
B-5	07/24/25	1.5'	Excavated	<14.5	**2,480**	<15.1	**2,480**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**879**
B-5	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00187 J**	<0.00229	<0.00229	**3.43 J**
B-6	07/24/25	1.5'	In Situ	<14.5	**31.3 J**	<15.1	**31.3 J**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**17.4**
B-7	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**55.3**
B-8	07/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**5.88 J**
B-9	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**10.5**
B-10	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**8.03 J**
B-11	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**6.48 J**
B-12	07/24/25	4'	Excavated	<14.5	**132**	<15.1	**132**	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**9.87 J**
B-12	08/07/25	4.5'	In Situ	<14.5	<15.1	**18.7 J**	**18.7 J**	<0.00139	<0.00200	**0.00195 J**	<0.00229	<0.00229	**4.33 J**
B-13	07/24/25	4'	Excavated	<14.5	**203**	<15.1	**203**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**13.9**
B-13	08/07/25	4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	**0.00220**	<0.00229	<0.00229	**3.30 J**
B-14	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**5.80 J**
B-15	07/24/25	4'	In Situ	<14.5	**99.2**	<15.1	**99.2**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**4.23 J**

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.
10. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
11. B: Compound was found in the blank and sample.

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TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017
INCIDENT #nSAP0225252743 (Tank Battery)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							**100**	**10**	**-**	**-**	**-**	**50**	**600**
Confirmation Sidewall Samples													
S-1	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**1,600 F1**
S-2	07/24/25	0-4'	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**471**
S-3	07/24/25	0-4'	In Situ	<14.5	**50.0 J**	<15.1	**50.0 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**538**
S-4	07/24/25	0-4'	In Situ	<14.5	**49.5 J**	<15.1	**49.5 J**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**1,350**
S-5	07/24/25	0-4'	In Situ	<72.6	**2,870**	<75.6	**2,870**	<0.00140	<0.00201	<0.00109	**0.00558**	**0.00508**	**551**
S-6	07/24/25	0-4'	In Situ	<14.5	**47.3 J**	<15.1	**47.3 J**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**10.3**
S-7	07/24/25	0-4'	Excavated	<14.5	**164**	<15.1	**164**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**113**
S-7	08/07/25	0-6.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**6.13 J F1**
S-8	07/24/25	0-4'	Excavated	<14.5	**121**	<15.1	**121**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**8.87 J**
S-8	08/07/25	0-6.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**4.72 J**
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**20.7**
Confirmation Bottom Samples													
B-1	07/24/25	6'	Excavated	<14.5	**121**	<15.1	**121**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**10.7**
B-1	08/07/25	6.5'	In Situ	<14.4	<15.0	15.1 J	**15.1 J**	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**4.00 J**
B-2	07/24/25	9'	In Situ	<14.5	**34.4 J**	<15.1	**34.4 J**	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**4.69 J**

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.
10. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
11. F1: MS and/or MSD recovery exceeds control limits.

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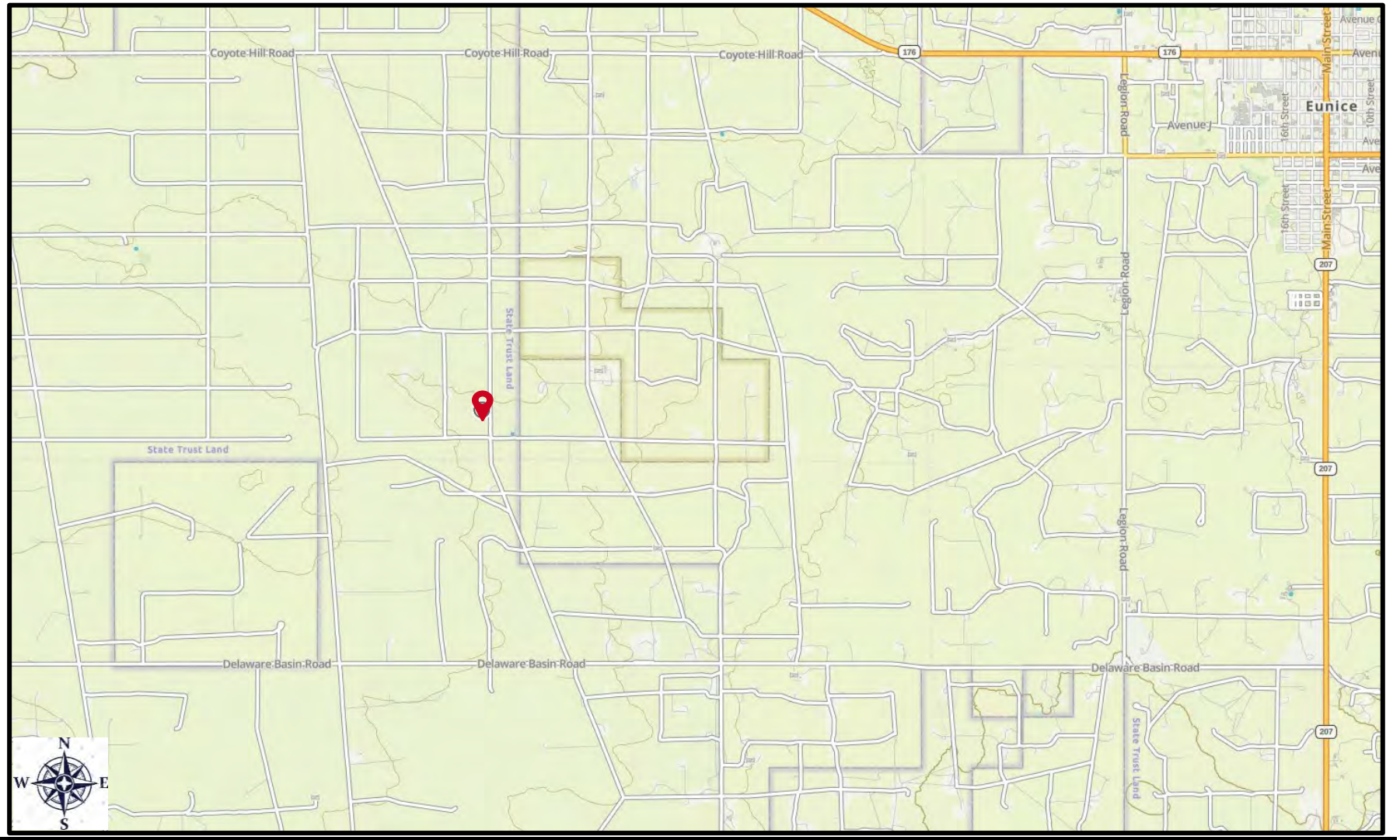
FIGURES



LEGEND:

Site Location

Figure 1
Site Location Map
Southwest Royalties, Inc.
State J 2 #017
Lea County, New Mexico

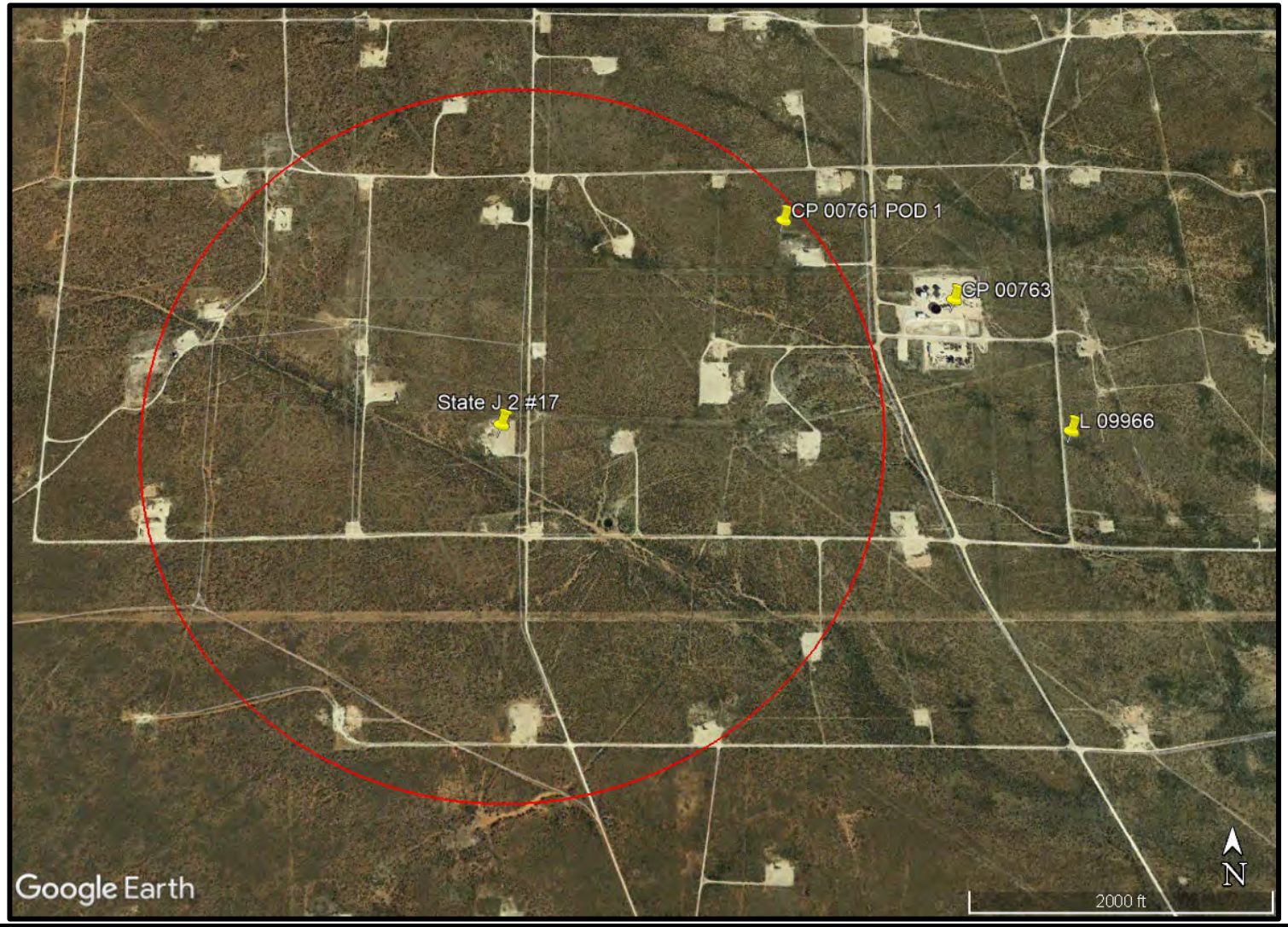
Drafted by: CC | Checked by: CC

Draft: Feb. 6, 2025

GPS: 32.4172592° -103.2306595°

Base Map from GAIA Topo

Grain Environmental



LEGEND:

Site and Water Well Locations

0.5-Mile Radius

Base map from Google Earth Pro

Figure 2

Wellhead Protection Area Map

Southwest Royalties, Inc.

State J 2 #017

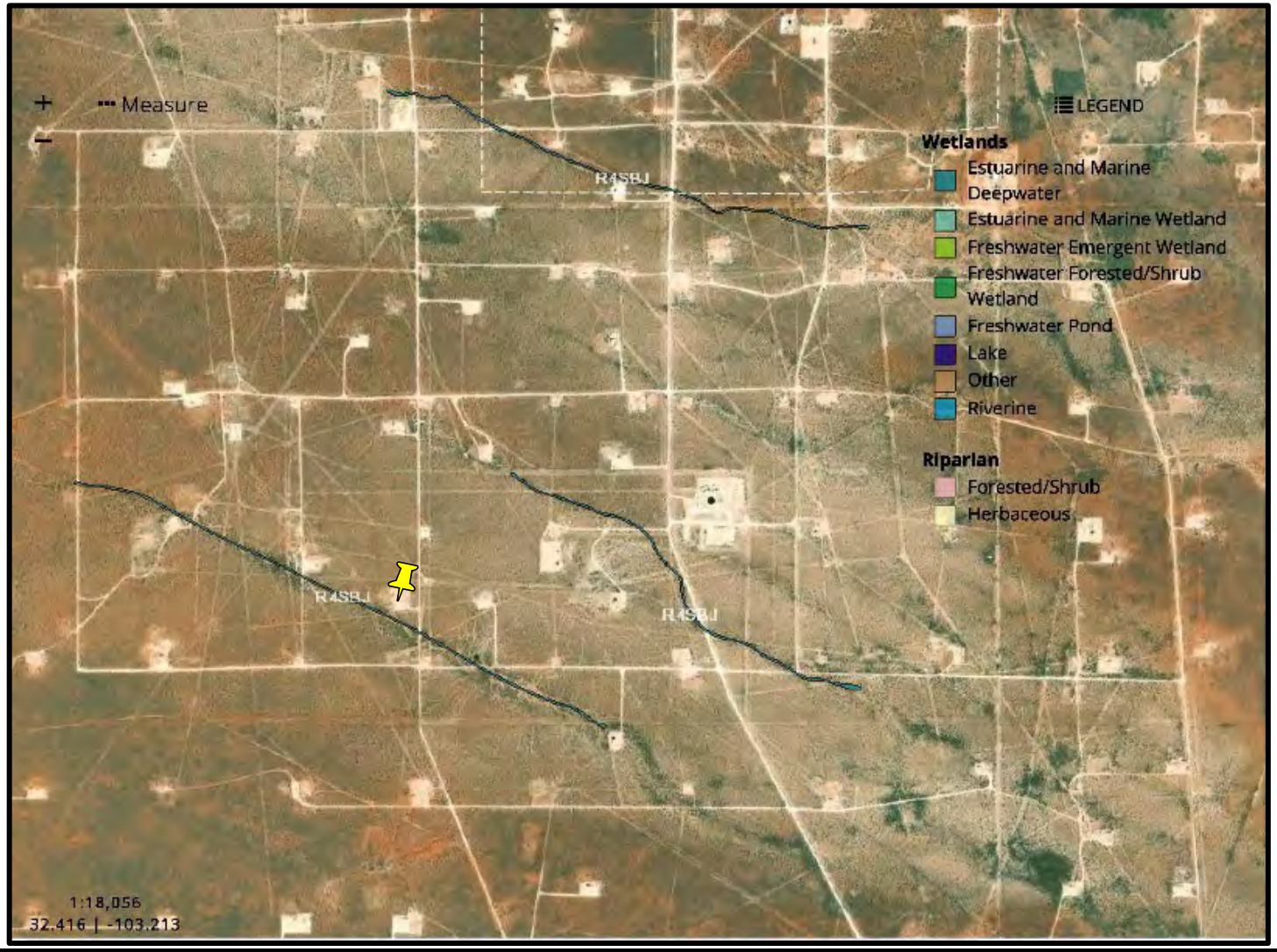
Lea County, New Mexico

Drafted by: CC | Checked by: CC

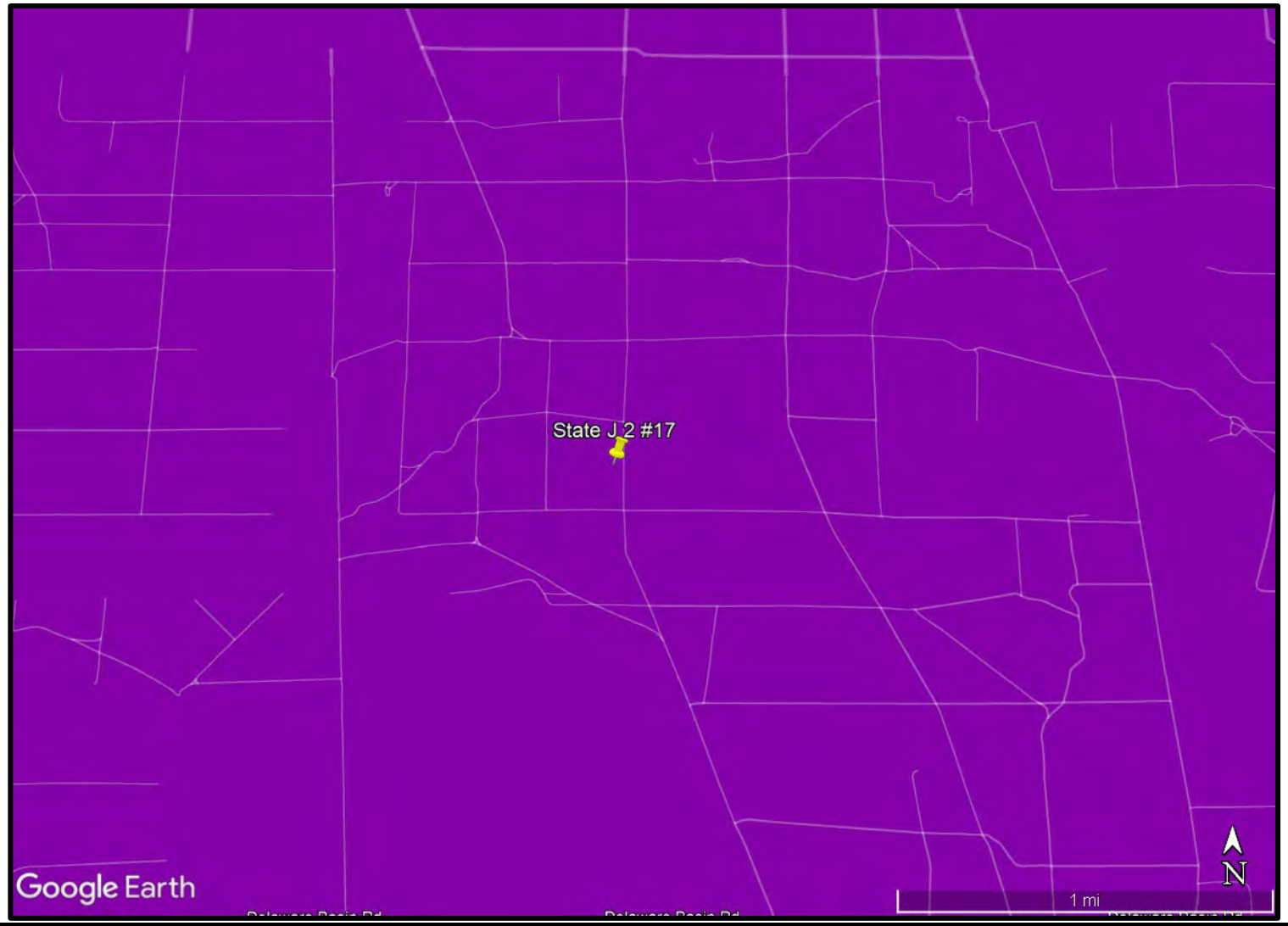
Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°

Grain Environmental



LEGEND: Site Location Base map from US Fish & Wildlife Service	**Figure 3** National Wetland Inventory Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: April 6, 2025 GPS: 32.4172592° -103.2306595°



LEGEND:

- Low Karst Potential
- Medium Karst Potential
- High Karst Potential

Base map from Google Earth Pro and BLM

Figure 4

Karst Potential Map

Southwest Royalties, Inc.

State J 2 #017

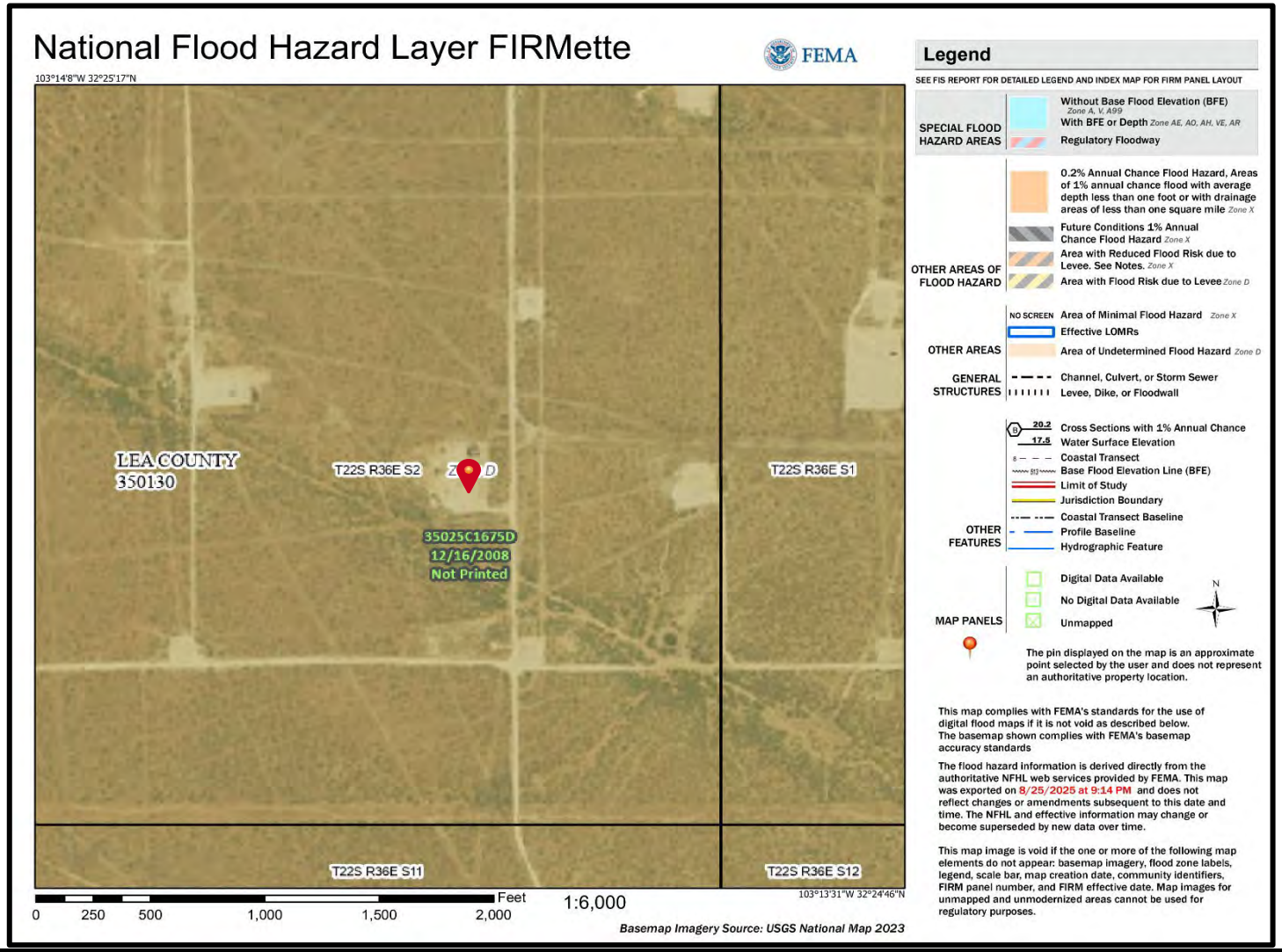
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°

Grain Environmental



LEGEND:

Site Location

Figure 5
FEMA Floodplain Map
Southwest Royalties, Inc.
State J 2 #017
Lea County, New Mexico

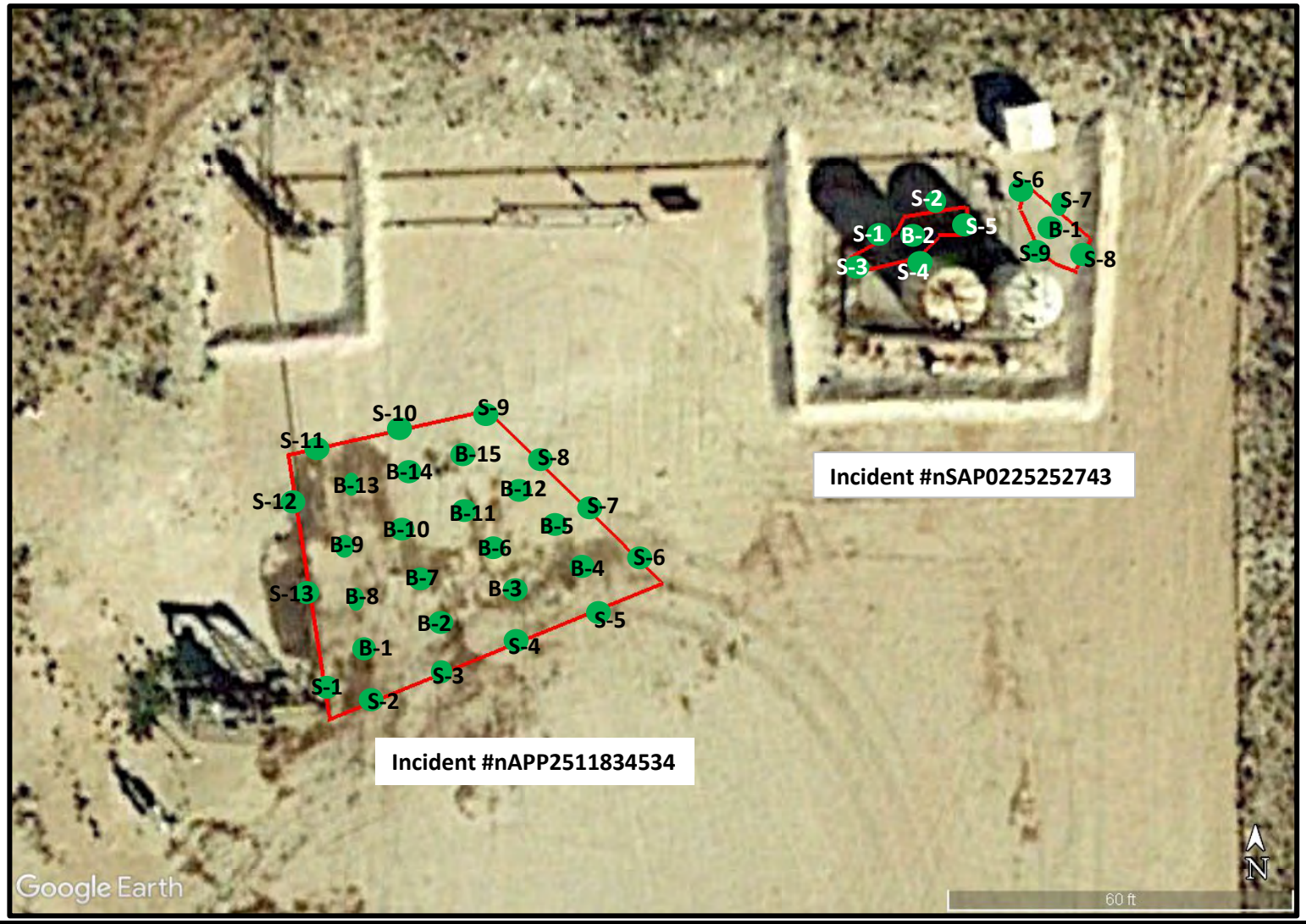
Drafted by: CC | Checked by: CC

Draft: August 25, 2025

GPS: 32.4172592° -103.2306595°

Base Map from FEMA

Grain Environmental



LEGEND:

S-1 Sample Location with Sample Number

Excavation Boundary

Figure 6

Sample Location Map

Southwest Royalties, Inc.

State J 2 #017

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Aug. 24, 2025

GPS: 32.4172592° -103.2306595°

Base Map from Google Earth (2017)

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Appendix A: NMOSE Point of Diversion Summary

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 00761 POD1	SE	SW	NW	01	22S	36E	666964.0	3588569.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	1612	**Driller Company:**	CAPSTAR DRILLING, L.P.		
Driller Name:	WILSON S. MCCLURY				
Drill Start Date:	1991-09-22	**Drill Finish Date:**	1992-01-07	**Plug Date:**	
Log File Date:	1994-08-16	**PCW Rcv Date:**	1994-08-16	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	4	**Estimated Yield:**	
Casing Size:	8.63	**Depth Well:**	5000	**Depth Water:**	

Water Bearing Stratifications:

Top	Bottom	Description
4080	5000	Limestone/Dolomite/Chalk

Meter Information

Meter Number:	10252	**Meter Make:**	HALLIBURTON
Meter Serial Number:	4SBF2540	**Meter Multiplier:**	1.0000
Number of Dials:	9	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2005-12-31	2005	0.000	A	RPT		0.000	
2006-03-31	2006	0.000	A	RPT		0.000	
2006-06-30	2006	0.000	A	RPT		0.000	
2006-10-30	2006	0.000	A	RPT		0.000	
2006-12-31	2006	0.000	A	RPT		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-03-31	2014	0.000	A	RPT		0.000	
2014-06-30	2014	0.000	A	RPT		0.000	

YTD Meter Amounts:

Year	Amount
2005	0.000
2006	0.000
2014	0.000

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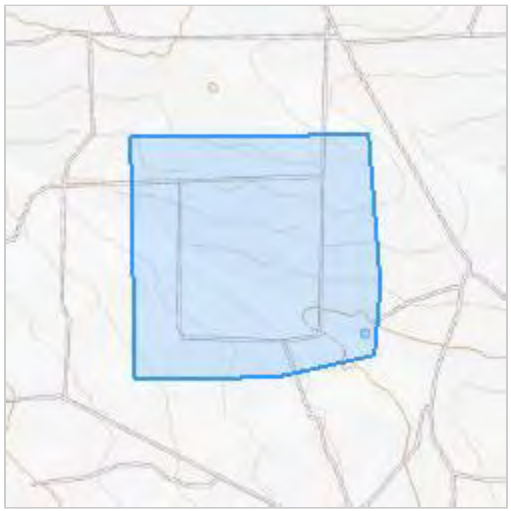
Appendix B: Biological Desktop Review

PROJECT SUMMARY

Project Code: 2025-0079048
Project Name: State J 2 #017
Project Type: Non-NPL Site Remediation
Project Description: Soil remediation
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@32.4174195,-103.23131530779142,14z



Counties: Lea County, New Mexico

BIRDS

NAME	STATUS
Lesser Prairie-chicken *Tympanuchus pallidicinctus* Population: Southern DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon *Falco femoralis septentrionalis* Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non-Essential

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

Grain Environmental

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/30/2025 10:01:16 AM

JOB DESCRIPTION

State J 2 #17
Lea Co. NM

JOB NUMBER

880-60810-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

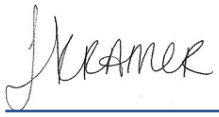
Eurofins Midland

Job Notes

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

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
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Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-60810-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: State J 2 #17

Job ID: 880-60810-1

Job ID: 880-60810-1 Eurofins Midland

Job Narrative
880-60810-1

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 7/25/2025 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: B-5 (880-60810-5), B-8 (880-60810-8), B-9 (880-60810-9), B-10 (880-60810-10), B-12 (880-60810-12), B-14 (880-60810-14) and S-5 (880-60810-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-9 (880-60810-24) and S-11 (880-60810-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-115086 recovered above the upper control limit for Benzene, Toluene, 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:(CCV 880-115086/51).

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 method blank for preparation batch 880-115105 and analytical batch 880-115272 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-1

Lab Sample ID: 880-60810-1
Matrix: Solid
Date Collected: 07/24/25 09:30
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:50	07/28/25 22:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:50	07/28/25 22:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:50	07/28/25 22:32	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:50	07/28/25 22:32	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:50	07/28/25 22:32	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:50	07/28/25 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/28/25 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.2**	**J**	49.8	15.1	mg/Kg			07/29/25 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 19:18	1
Diesel Range Organics (Over C10-C28)	**15.2**	**J**	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:18*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		10.0	0.397	mg/Kg			07/28/25 19:15	1

Client Sample ID: B-2

Lab Sample ID: 880-60810-2
Matrix: Solid
Date Collected: 07/24/25 10:55
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/28/25 22:52	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/28/25 22:52	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:50	07/28/25 22:52	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/28/25 22:52	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/28/25 22:52	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/28/25 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:52*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-2

Lab Sample ID: 880-60810-2
Matrix: Solid
Date Collected: 07/24/25 10:55
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/28/25 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			07/29/25 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 19:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:34*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.1**		9.98	0.394	mg/Kg			07/28/25 19:21	1

Client Sample ID: B-3

Lab Sample ID: 880-60810-3
Matrix: Solid
Date Collected: 07/24/25 09:33
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/28/25 23:12	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/28/25 23:12	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/28/25 23:12	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:12	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/28/25 23:12	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*07/28/25 09:50*	*07/28/25 23:12*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/28/25 09:50*	*07/28/25 23:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/28/25 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**679**		50.0	15.1	mg/Kg			07/29/25 19:50	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-3

Lab Sample ID: 880-60810-3
Matrix: Solid
Date Collected: 07/24/25 09:33
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 19:50	1
Diesel Range Organics (Over C10-C28)	**679**		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:50*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**493**		10.1	0.398	mg/Kg			07/28/25 19:38	1

Client Sample ID: B-4

Lab Sample ID: 880-60810-4
Matrix: Solid
Date Collected: 07/24/25 09:36
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/28/25 09:50	07/28/25 23:33	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:50	07/28/25 23:33	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:50	07/28/25 23:33	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:33	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:50	07/28/25 23:33	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/28/25 09:50*	*07/28/25 23:33*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/28/25 09:50*	*07/28/25 23:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			07/28/25 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**676**		50.0	15.1	mg/Kg			07/29/25 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 20:06	1
Diesel Range Organics (Over C10-C28)	**676**		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:06*	*1*
o-Terphenyl	*106*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:06*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-4

Lab Sample ID: 880-60810-4
Matrix: Solid
Date Collected: 07/24/25 09:36
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		10.1	0.397	mg/Kg			07/28/25 19:44	1

Client Sample ID: B-5

Lab Sample ID: 880-60810-5
Matrix: Solid
Date Collected: 07/24/25 09:39
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/28/25 23:53	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/28/25 23:53	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/28/25 23:53	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:53	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/28/25 23:53	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/28/25 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/28/25 23:53*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/28/25 09:50*	*07/28/25 23:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/28/25 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2480**		50.0	15.1	mg/Kg			07/29/25 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 20:38	1
Diesel Range Organics (Over C10-C28)	**2480**		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:38*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**879**		9.98	0.394	mg/Kg			07/28/25 20:01	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-6

Lab Sample ID: 880-60810-6
Matrix: Solid
Date Collected: 07/24/25 09:42
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:50	07/29/25 00:14	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:50	07/29/25 00:14	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:50	07/29/25 00:14	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:14	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:50	07/29/25 00:14	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:50*	*07/29/25 00:14*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 00:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			07/29/25 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**31.3**	**J**	49.8	15.1	mg/Kg			07/29/25 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 20:54	1
Diesel Range Organics (Over C10-C28)	**31.3**	**J**	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:54*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/28/25 09:50*	*07/29/25 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.4**		10.1	0.398	mg/Kg			07/28/25 20:06	1

Client Sample ID: B-7

Lab Sample ID: 880-60810-7
Matrix: Solid
Date Collected: 07/24/25 09:45
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/29/25 00:34	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/29/25 00:34	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:50	07/29/25 00:34	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:34	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/29/25 00:34	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*07/28/25 09:50*	*07/29/25 00:34*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-7

Lab Sample ID: 880-60810-7
Matrix: Solid
Date Collected: 07/24/25 09:45
Date Received: 07/25/25 13:05
Sample Depth: 1.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 00:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/29/25 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/29/25 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 21:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:09*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.3**		10.1	0.397	mg/Kg			07/28/25 20:12	1

Client Sample ID: B-8

Lab Sample ID: 880-60810-8
Matrix: Solid
Date Collected: 07/24/25 09:48
Date Received: 07/25/25 13:05
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/29/25 00:55	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/29/25 00:55	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:50	07/29/25 00:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:55	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/29/25 00:55	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/29/25 00:55*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 00:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/29/25 00:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			07/29/25 21:25	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-8

Lab Sample ID: 880-60810-8
Matrix: Solid
Date Collected: 07/24/25 09:48
Date Received: 07/25/25 13:05
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 21:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:25*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.88	J	10.0	0.396	mg/Kg			07/28/25 20:18	1

Client Sample ID: B-9

Lab Sample ID: 880-60810-9
Matrix: Solid
Date Collected: 07/24/25 09:51
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/28/25 09:50	07/29/25 01:15	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/28/25 09:50	07/29/25 01:15	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/28/25 09:50	07/29/25 01:15	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:50	07/29/25 01:15	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/28/25 09:50	07/29/25 01:15	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:50	07/29/25 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/29/25 01:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 01:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			07/29/25 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			07/29/25 21:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 21:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:41*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:41*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-9

Lab Sample ID: 880-60810-9
Matrix: Solid
Date Collected: 07/24/25 09:51
Date Received: 07/25/25 13:05
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		9.98	0.394	mg/Kg			07/28/25 20:23	1

Client Sample ID: B-10

Lab Sample ID: 880-60810-10
Matrix: Solid
Date Collected: 07/24/25 09:54
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/29/25 01:35	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/29/25 01:35	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/29/25 01:35	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 01:35	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/29/25 01:35	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/29/25 01:35*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/28/25 09:50*	*07/29/25 01:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			07/29/25 21:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 21:57	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:57*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.03	J	10.1	0.398	mg/Kg			07/28/25 20:29	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-11

Lab Sample ID: 880-60810-11
Matrix: Solid
Date Collected: 07/24/25 09:58
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/29/25 02:59	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/29/25 02:59	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/29/25 02:59	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 02:59	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/29/25 02:59	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:50*	*07/29/25 02:59*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/28/25 09:50*	*07/29/25 02:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 02:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			07/29/25 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 22:12	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:12*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.48**	**J**	10.1	0.397	mg/Kg			07/28/25 20:35	1

Client Sample ID: B-12

Lab Sample ID: 880-60810-12
Matrix: Solid
Date Collected: 07/24/25 10:58
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/28/25 09:50	07/29/25 03:19	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/28/25 09:50	07/29/25 03:19	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/28/25 09:50	07/29/25 03:19	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:50	07/29/25 03:19	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/28/25 09:50	07/29/25 03:19	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:50	07/29/25 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*07/28/25 09:50*	*07/29/25 03:19*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-12

Lab Sample ID: 880-60810-12
Matrix: Solid
Date Collected: 07/24/25 10:58
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*07/28/25 09:50*	*07/29/25 03:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			07/29/25 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**132**		49.9	15.1	mg/Kg			07/29/25 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 22:29	1
Diesel Range Organics (Over C10-C28)	**132**		49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:29*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.87**	**J**	9.98	0.394	mg/Kg			07/28/25 19:10	1

Client Sample ID: B-13

Lab Sample ID: 880-60810-13
Matrix: Solid
Date Collected: 07/24/25 10:02
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/29/25 03:40	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/29/25 03:40	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/28/25 09:50	07/29/25 03:40	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:50	07/29/25 03:40	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/29/25 03:40	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:50	07/29/25 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/28/25 09:50*	*07/29/25 03:40*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/28/25 09:50*	*07/29/25 03:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			07/29/25 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**203**		50.0	15.1	mg/Kg			07/29/25 22:44	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-13

Date Collected: 07/24/25 10:02
Date Received: 07/25/25 13:05
Sample Depth: 4'

Lab Sample ID: 880-60810-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 22:44	1
Diesel Range Organics (Over C10-C28)	**203**		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:44*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.9**		10.0	0.396	mg/Kg			07/28/25 19:33	1

Client Sample ID: B-14

Date Collected: 07/24/25 10:06
Date Received: 07/25/25 13:05
Sample Depth: 4'

Lab Sample ID: 880-60810-14

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/29/25 04:00	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/29/25 04:00	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/29/25 04:00	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 04:00	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/29/25 04:00	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/29/25 04:00*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 04:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			07/29/25 22:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:50	07/29/25 22:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:50	07/29/25 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:59*	*1*
o-Terphenyl	*101*		*70 - 130*	*07/28/25 09:50*	*07/29/25 22:59*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-14

Lab Sample ID: 880-60810-14
Matrix: Solid
Date Collected: 07/24/25 10:06
Date Received: 07/25/25 13:05
Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.80**	**J**	10.1	0.399	mg/Kg			07/28/25 19:40	1

Client Sample ID: B-15

Lab Sample ID: 880-60810-15
Matrix: Solid
Date Collected: 07/24/25 10:10
Date Received: 07/25/25 13:05
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:50	07/29/25 04:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:50	07/29/25 04:20	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:50	07/29/25 04:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/29/25 04:20	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:50	07/29/25 04:20	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/29/25 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/28/25 09:50*	*07/29/25 04:20*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 04:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			07/29/25 04:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**99.2**		49.9	15.1	mg/Kg			07/29/25 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:53	07/29/25 17:12	1
Diesel Range Organics (Over C10-C28)	**99.2**		49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 17:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/28/25 09:53*	*07/29/25 17:12*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/28/25 09:53*	*07/29/25 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.23**	**J**	10.1	0.397	mg/Kg			07/28/25 19:48	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-1

Lab Sample ID: 880-60810-16
Matrix: Solid
Date Collected: 07/24/25 10:14
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:50	07/29/25 04:41	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:50	07/29/25 04:41	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:50	07/29/25 04:41	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:50	07/29/25 04:41	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:50	07/29/25 04:41	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:50	07/29/25 04:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*07/28/25 09:50*	*07/29/25 04:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/28/25 09:50*	*07/29/25 04:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/25 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**188**		49.9	15.1	mg/Kg			07/29/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:53	07/29/25 18:00	1
Diesel Range Organics (Over C10-C28)	**188**		49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:00*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.4**		9.98	0.394	mg/Kg			07/28/25 19:56	1

Client Sample ID: S-2

Lab Sample ID: 880-60810-17
Matrix: Solid
Date Collected: 07/24/25 10:18
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/29/25 05:01	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/29/25 05:01	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:50	07/29/25 05:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 05:01	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/29/25 05:01	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:50	07/29/25 05:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:01*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-2

Lab Sample ID: 880-60810-17
Matrix: Solid
Date Collected: 07/24/25 10:18
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/29/25 05:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**148**		49.8	15.1	mg/Kg			07/29/25 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:53	07/29/25 18:15	1
Diesel Range Organics (Over C10-C28)	**148**		49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:15*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.6**		10.1	0.398	mg/Kg			07/28/25 20:18	1

Client Sample ID: S-3

Lab Sample ID: 880-60810-18
Matrix: Solid
Date Collected: 07/24/25 10:21
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/28/25 09:50	07/29/25 05:22	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:50	07/29/25 05:22	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:50	07/29/25 05:22	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:50	07/29/25 05:22	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:50	07/29/25 05:22	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:50	07/29/25 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/25 05:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.8**		50.0	15.1	mg/Kg			07/29/25 18:31	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-3

Lab Sample ID: 880-60810-18
Matrix: Solid
Date Collected: 07/24/25 10:21
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 18:31	1
Diesel Range Organics (Over C10-C28)	**63.8**		50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:31*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.4**		10.0	0.397	mg/Kg			07/28/25 20:26	1

Client Sample ID: S-4

Lab Sample ID: 880-60810-19
Matrix: Solid
Date Collected: 07/24/25 10:24
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:50	07/29/25 05:42	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:50	07/29/25 05:42	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:50	07/29/25 05:42	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 05:42	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:50	07/29/25 05:42	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:50	07/29/25 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:42*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 05:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			07/29/25 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		07/28/25 09:53	07/29/25 18:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		07/28/25 09:53	07/29/25 18:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		07/28/25 09:53	07/29/25 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:47*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/25 09:53*	*07/29/25 18:47*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-4

Lab Sample ID: 880-60810-19
Matrix: Solid
Date Collected: 07/24/25 10:24
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.9**		9.96	0.393	mg/Kg			07/28/25 20:34	1

Client Sample ID: S-5

Lab Sample ID: 880-60810-20
Matrix: Solid
Date Collected: 07/24/25 10:28
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:50	07/29/25 06:03	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:50	07/29/25 06:03	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/28/25 09:50	07/29/25 06:03	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:50	07/29/25 06:03	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:50	07/29/25 06:03	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:50	07/29/25 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*07/28/25 09:50*	*07/29/25 06:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/29/25 06:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			07/29/25 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**27.2**	**J**	50.0	15.1	mg/Kg			07/29/25 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 19:03	1
Diesel Range Organics (Over C10-C28)	**27.2**	**J**	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:03*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.44**	**J**	10.1	0.398	mg/Kg			07/28/25 20:41	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-6

Lab Sample ID: 880-60810-21
Matrix: Solid
Date Collected: 07/24/25 10:31
Date Received: 07/25/25 13:05
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/28/25 09:44	07/29/25 03:59	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:44	07/29/25 03:59	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:44	07/29/25 03:59	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 03:59	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:44	07/29/25 03:59	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/28/25 09:44*	*07/29/25 03:59*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/28/25 09:44*	*07/29/25 03:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/25 03:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**119**		49.8	15.1	mg/Kg			07/29/25 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:53	07/29/25 19:18	1
Diesel Range Organics (Over C10-C28)	**119**		49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:18*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.8**		10.1	0.397	mg/Kg			07/28/25 20:49	1

Client Sample ID: S-7

Lab Sample ID: 880-60810-22
Matrix: Solid
Date Collected: 07/24/25 10:34
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/29/25 04:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 04:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 04:19	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 04:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 04:19	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/28/25 09:44*	*07/29/25 04:19*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-7

Lab Sample ID: 880-60810-22
Matrix: Solid
Date Collected: 07/24/25 10:34
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/28/25 09:44*	*07/29/25 04:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/25 04:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/29/25 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 19:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:34*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.5**		10.0	0.396	mg/Kg			07/28/25 20:57	1

Client Sample ID: S-8

Lab Sample ID: 880-60810-23
Matrix: Solid
Date Collected: 07/24/25 10:37
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:44	07/29/25 04:39	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 04:39	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:44	07/29/25 04:39	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 04:39	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 04:39	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*07/28/25 09:44*	*07/29/25 04:39*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 04:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/29/25 04:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/29/25 19:50	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-8

Lab Sample ID: 880-60810-23
Matrix: Solid
Date Collected: 07/24/25 10:37
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 19:50	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:50	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:50*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/28/25 09:53*	*07/29/25 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.74**	**J**	9.96	0.393	mg/Kg			07/28/25 21:20	1

Client Sample ID: S-9

Lab Sample ID: 880-60810-24
Matrix: Solid
Date Collected: 07/24/25 10:40
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/28/25 09:44	07/29/25 05:00	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/28/25 09:44	07/29/25 05:00	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/28/25 09:44	07/29/25 05:00	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/29/25 05:00	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/28/25 09:44	07/29/25 05:00	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/29/25 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/28/25 09:44*	*07/29/25 05:00*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 05:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			07/29/25 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			07/29/25 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:53	07/29/25 20:06	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:06*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:06*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-9
Date Collected: 07/24/25 10:40
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Lab Sample ID: 880-60810-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		10.0	0.397	mg/Kg			07/28/25 21:27	1

Client Sample ID: S-10
Date Collected: 07/24/25 10:43
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Lab Sample ID: 880-60810-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:44	07/29/25 05:20	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 05:20	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/28/25 09:44	07/29/25 05:20	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 05:20	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 05:20	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/28/25 09:44*	*07/29/25 05:20*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/28/25 09:44*	*07/29/25 05:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			07/29/25 05:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**251**		50.0	15.1	mg/Kg			07/29/25 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 20:38	1
Diesel Range Organics (Over C10-C28)	**251**		50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:38*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.94**	**J**	9.98	0.394	mg/Kg			07/28/25 21:50	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-11

Lab Sample ID: 880-60810-26
Matrix: Solid
Date Collected: 07/24/25 10:47
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:44	07/29/25 05:41	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:44	07/29/25 05:41	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:44	07/29/25 05:41	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 05:41	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:44	07/29/25 05:41	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*07/28/25 09:44*	*07/29/25 05:41*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 05:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 05:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**297**		49.8	15.1	mg/Kg			07/29/25 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 09:53	07/29/25 20:54	1
Diesel Range Organics (Over C10-C28)	**297**		49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 09:53	07/29/25 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/28/25 09:53*	*07/29/25 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.21**	**J**	10.1	0.398	mg/Kg			07/28/25 21:58	1

Client Sample ID: S-12

Lab Sample ID: 880-60810-27
Matrix: Solid
Date Collected: 07/24/25 10:50
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/29/25 06:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 06:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 06:01	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 06:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 06:01	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/28/25 09:44*	*07/29/25 06:01*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-12

Lab Sample ID: 880-60810-27
Matrix: Solid
Date Collected: 07/24/25 10:50
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 06:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/25 06:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**591**		49.9	15.1	mg/Kg			07/29/25 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:53	07/29/25 21:09	1
Diesel Range Organics (Over C10-C28)	**591**		49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 21:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:53	07/29/25 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*07/28/25 09:53*	*07/29/25 21:09*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/28/25 09:53*	*07/29/25 21:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.61**	**J**	10.1	0.397	mg/Kg			07/28/25 22:05	1

Client Sample ID: S-13

Lab Sample ID: 880-60810-28
Matrix: Solid
Date Collected: 07/24/25 10:53
Date Received: 07/25/25 13:05
Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/28/25 09:44	07/29/25 06:22	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:44	07/29/25 06:22	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:44	07/29/25 06:22	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 06:22	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:44	07/29/25 06:22	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:44*	*07/29/25 06:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/28/25 09:44*	*07/29/25 06:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/25 06:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**82.0**		50.0	15.1	mg/Kg			07/29/25 21:25	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-13

Date Collected: 07/24/25 10:53
Date Received: 07/25/25 13:05
Sample Depth: 0-3'

Lab Sample ID: 880-60810-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:53	07/29/25 21:25	1
Diesel Range Organics (Over C10-C28)	**82.0**		50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 21:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:53	07/29/25 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:53*	*07/29/25 21:25*	*1*
o-Terphenyl	*98*		*70 - 130*	*07/28/25 09:53*	*07/29/25 21:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.7**		9.98	0.394	mg/Kg			07/28/25 22:13	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-60809-A-1-B MS	Matrix Spike	124	98										
880-60809-A-1-C MSD	Matrix Spike Duplicate	124	97										
880-60810-1	B-1	124	102										
880-60810-1 MS	B-1	109	92										
880-60810-1 MSD	B-1	109	103										
880-60810-2	B-2	124	100										
880-60810-3	B-3	129	102										
880-60810-4	B-4	127	103										
880-60810-5	B-5	132 S1+	102										
880-60810-6	B-6	126	100										
880-60810-7	B-7	130	100										
880-60810-8	B-8	131 S1+	102										
880-60810-9	B-9	139 S1+	104										
880-60810-10	B-10	131 S1+	101										
880-60810-11	B-11	126	99										
880-60810-12	B-12	130	99										
880-60810-13	B-13	121	96										
880-60810-14	B-14	132 S1+	103										
880-60810-15	B-15	128	100										
880-60810-16	S-1	123	94										
880-60810-17	S-2	128	100										
880-60810-18	S-3	127	101										
880-60810-19	S-4	127	102										
880-60810-20	S-5	134 S1+	100										
880-60810-21	S-6	124	95										
880-60810-22	S-7	125	91										
880-60810-23	S-8	130	92										
880-60810-24	S-9	131 S1+	92										
880-60810-25	S-10	124	91										
880-60810-26	S-11	131 S1+	92										
880-60810-27	S-12	122	92										
880-60810-28	S-13	126	93										
LCS 880-115100/1-A	Lab Control Sample	120	99										
LCS 880-115106/1-A	Lab Control Sample	104	96										
LCSD 880-115100/2-A	Lab Control Sample Dup	121	99										
LCSD 880-115106/2-A	Lab Control Sample Dup	106	90										
MB 880-114949/5-A	Method Blank	116	88										
MB 880-115012/5-A	Method Blank	111	98										
MB 880-115100/5-A	Method Blank	122	90										
MB 880-115106/5-A	Method Blank	115	100										

Surrogate Legend

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

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-60809-A-6-C MS	Matrix Spike	95	100
880-60809-A-6-D MSD	Matrix Spike Duplicate	95	101
880-60810-1	B-1	104	103
880-60810-2	B-2	105	103
880-60810-3	B-3	102	104
880-60810-4	B-4	102	106
880-60810-5	B-5	101	118
880-60810-6	B-6	102	99
880-60810-7	B-7	104	100
880-60810-8	B-8	102	98
880-60810-9	B-9	103	102
880-60810-10	B-10	105	102
880-60810-11	B-11	104	103
880-60810-12	B-12	103	102
880-60810-13	B-13	101	97
880-60810-14	B-14	103	101
880-60810-15	B-15	106	98
880-60810-15 MS	B-15	97	95
880-60810-15 MSD	B-15	97	96
880-60810-16	S-1	104	99
880-60810-17	S-2	104	97
880-60810-18	S-3	105	93
880-60810-19	S-4	111	102
880-60810-20	S-5	106	99
880-60810-21	S-6	98	97
880-60810-22	S-7	105	98
880-60810-23	S-8	107	98
880-60810-24	S-9	89	83
880-60810-25	S-10	105	97
880-60810-26	S-11	101	95
880-60810-27	S-12	91	88
880-60810-28	S-13	103	98
LCS 880-115105/2-A	Lab Control Sample	111	104
LCS 880-115107/2-A	Lab Control Sample	99	100
LCSD 880-115105/3-A	Lab Control Sample Dup	93	103
LCSD 880-115107/3-A	Lab Control Sample Dup	98	99
MB 880-115105/1-A	Method Blank	120	118
MB 880-115107/1-A	Method Blank	125	115

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114949/5-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/24/25 14:24*	*07/28/25 11:42*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/24/25 14:24*	*07/28/25 11:42*	*1*

Lab Sample ID: MB 880-115012/5-A
Matrix: Solid
Analysis Batch: 115086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/25/25 09:28	07/28/25 11:35	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/25/25 09:28	07/28/25 11:35	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/25/25 09:28	07/28/25 11:35	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/25/25 09:28	07/28/25 11:35	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/25/25 09:28	07/28/25 11:35	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/25/25 09:28	07/28/25 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/25/25 09:28*	*07/28/25 11:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/25/25 09:28*	*07/28/25 11:35*	*1*

Lab Sample ID: MB 880-115100/5-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/28/25 09:44*	*07/28/25 22:38*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/28/25 09:44*	*07/28/25 22:38*	*1*

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-115100/1-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09963		mg/Kg		100	70 - 130		
Toluene			0.100	0.08698		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09127		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1763		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09100		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-115100/2-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1140		mg/Kg		114	70 - 130	13	35
Toluene			0.100	0.09992		mg/Kg		100	70 - 130	14	35
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2050		mg/Kg		102	70 - 130	15	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-60809-A-1-B MS
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00139	U	0.100	0.09434		mg/Kg		94	70 - 130		
Toluene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130		
Ethylbenzene	<0.00109	U	0.100	0.07874		mg/Kg		79	70 - 130		
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1514		mg/Kg		76	70 - 130		
o-Xylene	<0.00158	U	0.100	0.07860		mg/Kg		79	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-60809-A-1-C MSD
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09942		mg/Kg		99	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08399		mg/Kg		84	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.08188		mg/Kg		82	70 - 130	4	35

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-60809-A-1-C MSD
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1567		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00158	U	0.100	0.08088		mg/Kg		81	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-115106/5-A
Matrix: Solid
Analysis Batch: 115086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:50	07/28/25 22:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:50	07/28/25 22:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:50	07/28/25 22:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/28/25 22:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:50	07/28/25 22:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:50	07/28/25 22:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:10*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*07/28/25 09:50*	*07/28/25 22:10*	*1*

Lab Sample ID: LCS 880-115106/1-A
Matrix: Solid
Analysis Batch: 115086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1173		mg/Kg		117	70 - 130
Toluene	0.100	0.1083		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1116		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2157		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-115106/2-A
Matrix: Solid
Analysis Batch: 115086

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1159		mg/Kg		116	70 - 130	1	35
Toluene	0.100	0.1069		mg/Kg		107	70 - 130	1	35
Ethylbenzene	0.100	0.1117		mg/Kg		112	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2168		mg/Kg		108	70 - 130	0	35
o-Xylene	0.100	0.1108		mg/Kg		111	70 - 130	0	35

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-60810-1 MS — **Client Sample ID: B-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115086 — **Prep Batch: 115106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.1022		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.09136		mg/Kg		91	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.09147		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1748		mg/Kg		87	70 - 130
o-Xylene	<0.00158	U	0.100	0.09094		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-60810-1 MSD — **Client Sample ID: B-1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115086 — **Prep Batch: 115106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.1056		mg/Kg		106	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.09301		mg/Kg		93	70 - 130	2	35
Ethylbenzene	<0.00109	U	0.100	0.09069		mg/Kg		91	70 - 130	1	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1732		mg/Kg		87	70 - 130	1	35
o-Xylene	<0.00158	U	0.100	0.08613		mg/Kg		86	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-115105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.69	J	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	07/28/25 09:50	07/29/25 16:14	1
o-Terphenyl	118		70 - 130	07/28/25 09:50	07/29/25 16:14	1

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-115105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	966.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	917.1		mg/Kg		92	70 - 130		

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

Lab Sample ID: LCSD 880-115105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	963.3		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	975.5		mg/Kg		98	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-60809-A-6-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	829.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	49.5	J	999	922.0		mg/Kg		87	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-60809-A-6-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	846.6		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	49.5	J	999	938.0		mg/Kg		89	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-60809-A-6-D MSD
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115105

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	101		70 - 130

Lab Sample ID: MB 880-115107/1-A
Matrix: Solid
Analysis Batch: 115274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:52	07/29/25 16:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:52	07/29/25 16:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:52	07/29/25 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	07/28/25 09:52	07/29/25 16:14	1
o-Terphenyl	115		70 - 130	07/28/25 09:52	07/29/25 16:14	1

Lab Sample ID: LCS 880-115107/2-A
Matrix: Solid
Analysis Batch: 115274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115107

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	997.7		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	966.6		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-115107/3-A
Matrix: Solid
Analysis Batch: 115274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115107

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	992.6		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	959.2		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	99		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-60810-15 MS
Matrix: Solid
Analysis Batch: 115274

Client Sample ID: B-15
Prep Type: Total/NA
Prep Batch: 115107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	872.7		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	99.2		999	914.1		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 880-60810-15 MSD
Matrix: Solid
Analysis Batch: 115274

Client Sample ID: B-15
Prep Type: Total/NA
Prep Batch: 115107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	877.2		mg/Kg		88	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	99.2		999	909.2		mg/Kg		81	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115124/1-A
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			07/28/25 17:45	1

Lab Sample ID: LCS 880-115124/2-A
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.1		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-115124/3-A
Matrix: Solid
Analysis Batch: 115189

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	238.4		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-60810-2 MS — **Client Sample ID: B-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115189

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.1		250	250.1		mg/Kg		96	90 - 110

Lab Sample ID: 880-60810-2 MSD — **Client Sample ID: B-2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115189

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.1		250	250.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-115110/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			07/28/25 18:47	1

Lab Sample ID: LCS 880-115110/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-115110/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.4		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-60810-12 MS — **Client Sample ID: B-12**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.87	J	250	258.0		mg/Kg		99	90 - 110

Lab Sample ID: 880-60810-12 MSD — **Client Sample ID: B-12**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.87	J	250	260.3		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-60810-22 MS — **Client Sample ID: S-7**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 115191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	55.5		251	310.1		mg/Kg		102	90 - 110

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-60810-22 MSD
Matrix: Solid
Analysis Batch: 115191

Client Sample ID: S-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.5		251	308.6		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 114949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-114949/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 115012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115012/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 115086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	8021B	115106
880-60810-2	B-2	Total/NA	Solid	8021B	115106
880-60810-3	B-3	Total/NA	Solid	8021B	115106
880-60810-4	B-4	Total/NA	Solid	8021B	115106
880-60810-5	B-5	Total/NA	Solid	8021B	115106
880-60810-6	B-6	Total/NA	Solid	8021B	115106
880-60810-7	B-7	Total/NA	Solid	8021B	115106
880-60810-8	B-8	Total/NA	Solid	8021B	115106
880-60810-9	B-9	Total/NA	Solid	8021B	115106
880-60810-10	B-10	Total/NA	Solid	8021B	115106
880-60810-11	B-11	Total/NA	Solid	8021B	115106
880-60810-12	B-12	Total/NA	Solid	8021B	115106
880-60810-13	B-13	Total/NA	Solid	8021B	115106
880-60810-14	B-14	Total/NA	Solid	8021B	115106
880-60810-15	B-15	Total/NA	Solid	8021B	115106
880-60810-16	S-1	Total/NA	Solid	8021B	115106
880-60810-17	S-2	Total/NA	Solid	8021B	115106
880-60810-18	S-3	Total/NA	Solid	8021B	115106
880-60810-19	S-4	Total/NA	Solid	8021B	115106
880-60810-20	S-5	Total/NA	Solid	8021B	115106
MB 880-115012/5-A	Method Blank	Total/NA	Solid	8021B	115012
MB 880-115106/5-A	Method Blank	Total/NA	Solid	8021B	115106
LCS 880-115106/1-A	Lab Control Sample	Total/NA	Solid	8021B	115106
LCSD 880-115106/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115106
880-60810-1 MS	B-1	Total/NA	Solid	8021B	115106
880-60810-1 MSD	B-1	Total/NA	Solid	8021B	115106

Analysis Batch: 115087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-21	S-6	Total/NA	Solid	8021B	115100
880-60810-22	S-7	Total/NA	Solid	8021B	115100
880-60810-23	S-8	Total/NA	Solid	8021B	115100
880-60810-24	S-9	Total/NA	Solid	8021B	115100
880-60810-25	S-10	Total/NA	Solid	8021B	115100
880-60810-26	S-11	Total/NA	Solid	8021B	115100
880-60810-27	S-12	Total/NA	Solid	8021B	115100
880-60810-28	S-13	Total/NA	Solid	8021B	115100
MB 880-114949/5-A	Method Blank	Total/NA	Solid	8021B	114949
MB 880-115100/5-A	Method Blank	Total/NA	Solid	8021B	115100
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	8021B	115100
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115100
880-60809-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	115100
880-60809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	115100

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 115100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-21	S-6	Total/NA	Solid	5035	
880-60810-22	S-7	Total/NA	Solid	5035	
880-60810-23	S-8	Total/NA	Solid	5035	
880-60810-24	S-9	Total/NA	Solid	5035	
880-60810-25	S-10	Total/NA	Solid	5035	
880-60810-26	S-11	Total/NA	Solid	5035	
880-60810-27	S-12	Total/NA	Solid	5035	
880-60810-28	S-13	Total/NA	Solid	5035	
MB 880-115100/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60809-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-60809-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 115106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	5035	
880-60810-2	B-2	Total/NA	Solid	5035	
880-60810-3	B-3	Total/NA	Solid	5035	
880-60810-4	B-4	Total/NA	Solid	5035	
880-60810-5	B-5	Total/NA	Solid	5035	
880-60810-6	B-6	Total/NA	Solid	5035	
880-60810-7	B-7	Total/NA	Solid	5035	
880-60810-8	B-8	Total/NA	Solid	5035	
880-60810-9	B-9	Total/NA	Solid	5035	
880-60810-10	B-10	Total/NA	Solid	5035	
880-60810-11	B-11	Total/NA	Solid	5035	
880-60810-12	B-12	Total/NA	Solid	5035	
880-60810-13	B-13	Total/NA	Solid	5035	
880-60810-14	B-14	Total/NA	Solid	5035	
880-60810-15	B-15	Total/NA	Solid	5035	
880-60810-16	S-1	Total/NA	Solid	5035	
880-60810-17	S-2	Total/NA	Solid	5035	
880-60810-18	S-3	Total/NA	Solid	5035	
880-60810-19	S-4	Total/NA	Solid	5035	
880-60810-20	S-5	Total/NA	Solid	5035	
MB 880-115106/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115106/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115106/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60810-1 MS	B-1	Total/NA	Solid	5035	
880-60810-1 MSD	B-1	Total/NA	Solid	5035	

Analysis Batch: 115292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	Total BTEX	
880-60810-2	B-2	Total/NA	Solid	Total BTEX	
880-60810-3	B-3	Total/NA	Solid	Total BTEX	
880-60810-4	B-4	Total/NA	Solid	Total BTEX	
880-60810-5	B-5	Total/NA	Solid	Total BTEX	
880-60810-6	B-6	Total/NA	Solid	Total BTEX	
880-60810-7	B-7	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 115292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-8	B-8	Total/NA	Solid	Total BTEX	
880-60810-9	B-9	Total/NA	Solid	Total BTEX	
880-60810-10	B-10	Total/NA	Solid	Total BTEX	
880-60810-11	B-11	Total/NA	Solid	Total BTEX	
880-60810-12	B-12	Total/NA	Solid	Total BTEX	
880-60810-13	B-13	Total/NA	Solid	Total BTEX	
880-60810-14	B-14	Total/NA	Solid	Total BTEX	
880-60810-15	B-15	Total/NA	Solid	Total BTEX	
880-60810-16	S-1	Total/NA	Solid	Total BTEX	
880-60810-17	S-2	Total/NA	Solid	Total BTEX	
880-60810-18	S-3	Total/NA	Solid	Total BTEX	
880-60810-19	S-4	Total/NA	Solid	Total BTEX	
880-60810-20	S-5	Total/NA	Solid	Total BTEX	
880-60810-21	S-6	Total/NA	Solid	Total BTEX	
880-60810-22	S-7	Total/NA	Solid	Total BTEX	
880-60810-23	S-8	Total/NA	Solid	Total BTEX	
880-60810-24	S-9	Total/NA	Solid	Total BTEX	
880-60810-25	S-10	Total/NA	Solid	Total BTEX	
880-60810-26	S-11	Total/NA	Solid	Total BTEX	
880-60810-27	S-12	Total/NA	Solid	Total BTEX	
880-60810-28	S-13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 115105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	8015NM Prep	
880-60810-2	B-2	Total/NA	Solid	8015NM Prep	
880-60810-3	B-3	Total/NA	Solid	8015NM Prep	
880-60810-4	B-4	Total/NA	Solid	8015NM Prep	
880-60810-5	B-5	Total/NA	Solid	8015NM Prep	
880-60810-6	B-6	Total/NA	Solid	8015NM Prep	
880-60810-7	B-7	Total/NA	Solid	8015NM Prep	
880-60810-8	B-8	Total/NA	Solid	8015NM Prep	
880-60810-9	B-9	Total/NA	Solid	8015NM Prep	
880-60810-10	B-10	Total/NA	Solid	8015NM Prep	
880-60810-11	B-11	Total/NA	Solid	8015NM Prep	
880-60810-12	B-12	Total/NA	Solid	8015NM Prep	
880-60810-13	B-13	Total/NA	Solid	8015NM Prep	
880-60810-14	B-14	Total/NA	Solid	8015NM Prep	
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60809-A-6-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-60809-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 115107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-15	B-15	Total/NA	Solid	8015NM Prep	
880-60810-16	S-1	Total/NA	Solid	8015NM Prep	
880-60810-17	S-2	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Prep Batch: 115107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-18	S-3	Total/NA	Solid	8015NM Prep	
880-60810-19	S-4	Total/NA	Solid	8015NM Prep	
880-60810-20	S-5	Total/NA	Solid	8015NM Prep	
880-60810-21	S-6	Total/NA	Solid	8015NM Prep	
880-60810-22	S-7	Total/NA	Solid	8015NM Prep	
880-60810-23	S-8	Total/NA	Solid	8015NM Prep	
880-60810-24	S-9	Total/NA	Solid	8015NM Prep	
880-60810-25	S-10	Total/NA	Solid	8015NM Prep	
880-60810-26	S-11	Total/NA	Solid	8015NM Prep	
880-60810-27	S-12	Total/NA	Solid	8015NM Prep	
880-60810-28	S-13	Total/NA	Solid	8015NM Prep	
MB 880-115107/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115107/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60810-15 MS	B-15	Total/NA	Solid	8015NM Prep	
880-60810-15 MSD	B-15	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	8015B NM	115105
880-60810-2	B-2	Total/NA	Solid	8015B NM	115105
880-60810-3	B-3	Total/NA	Solid	8015B NM	115105
880-60810-4	B-4	Total/NA	Solid	8015B NM	115105
880-60810-5	B-5	Total/NA	Solid	8015B NM	115105
880-60810-6	B-6	Total/NA	Solid	8015B NM	115105
880-60810-7	B-7	Total/NA	Solid	8015B NM	115105
880-60810-8	B-8	Total/NA	Solid	8015B NM	115105
880-60810-9	B-9	Total/NA	Solid	8015B NM	115105
880-60810-10	B-10	Total/NA	Solid	8015B NM	115105
880-60810-11	B-11	Total/NA	Solid	8015B NM	115105
880-60810-12	B-12	Total/NA	Solid	8015B NM	115105
880-60810-13	B-13	Total/NA	Solid	8015B NM	115105
880-60810-14	B-14	Total/NA	Solid	8015B NM	115105
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015B NM	115105
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115105
LCSD 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115105
880-60809-A-6-C MS	Matrix Spike	Total/NA	Solid	8015B NM	115105
880-60809-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	115105

Analysis Batch: 115274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-15	B-15	Total/NA	Solid	8015B NM	115107
880-60810-16	S-1	Total/NA	Solid	8015B NM	115107
880-60810-17	S-2	Total/NA	Solid	8015B NM	115107
880-60810-18	S-3	Total/NA	Solid	8015B NM	115107
880-60810-19	S-4	Total/NA	Solid	8015B NM	115107
880-60810-20	S-5	Total/NA	Solid	8015B NM	115107
880-60810-21	S-6	Total/NA	Solid	8015B NM	115107
880-60810-22	S-7	Total/NA	Solid	8015B NM	115107
880-60810-23	S-8	Total/NA	Solid	8015B NM	115107
880-60810-24	S-9	Total/NA	Solid	8015B NM	115107

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 115274 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-25	S-10	Total/NA	Solid	8015B NM	115107
880-60810-26	S-11	Total/NA	Solid	8015B NM	115107
880-60810-27	S-12	Total/NA	Solid	8015B NM	115107
880-60810-28	S-13	Total/NA	Solid	8015B NM	115107
MB 880-115107/1-A	Method Blank	Total/NA	Solid	8015B NM	115107
LCS 880-115107/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115107
LCSD 880-115107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115107
880-60810-15 MS	B-15	Total/NA	Solid	8015B NM	115107
880-60810-15 MSD	B-15	Total/NA	Solid	8015B NM	115107

Analysis Batch: 115377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Total/NA	Solid	8015 NM	
880-60810-2	B-2	Total/NA	Solid	8015 NM	
880-60810-3	B-3	Total/NA	Solid	8015 NM	
880-60810-4	B-4	Total/NA	Solid	8015 NM	
880-60810-5	B-5	Total/NA	Solid	8015 NM	
880-60810-6	B-6	Total/NA	Solid	8015 NM	
880-60810-7	B-7	Total/NA	Solid	8015 NM	
880-60810-8	B-8	Total/NA	Solid	8015 NM	
880-60810-9	B-9	Total/NA	Solid	8015 NM	
880-60810-10	B-10	Total/NA	Solid	8015 NM	
880-60810-11	B-11	Total/NA	Solid	8015 NM	
880-60810-12	B-12	Total/NA	Solid	8015 NM	
880-60810-13	B-13	Total/NA	Solid	8015 NM	
880-60810-14	B-14	Total/NA	Solid	8015 NM	
880-60810-15	B-15	Total/NA	Solid	8015 NM	
880-60810-16	S-1	Total/NA	Solid	8015 NM	
880-60810-17	S-2	Total/NA	Solid	8015 NM	
880-60810-18	S-3	Total/NA	Solid	8015 NM	
880-60810-19	S-4	Total/NA	Solid	8015 NM	
880-60810-20	S-5	Total/NA	Solid	8015 NM	
880-60810-21	S-6	Total/NA	Solid	8015 NM	
880-60810-22	S-7	Total/NA	Solid	8015 NM	
880-60810-23	S-8	Total/NA	Solid	8015 NM	
880-60810-24	S-9	Total/NA	Solid	8015 NM	
880-60810-25	S-10	Total/NA	Solid	8015 NM	
880-60810-26	S-11	Total/NA	Solid	8015 NM	
880-60810-27	S-12	Total/NA	Solid	8015 NM	
880-60810-28	S-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-12	B-12	Soluble	Solid	DI Leach	
880-60810-13	B-13	Soluble	Solid	DI Leach	
880-60810-14	B-14	Soluble	Solid	DI Leach	
880-60810-15	B-15	Soluble	Solid	DI Leach	
880-60810-16	S-1	Soluble	Solid	DI Leach	
880-60810-17	S-2	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Leach Batch: 115110 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-18	S-3	Soluble	Solid	DI Leach	
880-60810-19	S-4	Soluble	Solid	DI Leach	
880-60810-20	S-5	Soluble	Solid	DI Leach	
880-60810-21	S-6	Soluble	Solid	DI Leach	
880-60810-22	S-7	Soluble	Solid	DI Leach	
880-60810-23	S-8	Soluble	Solid	DI Leach	
880-60810-24	S-9	Soluble	Solid	DI Leach	
880-60810-25	S-10	Soluble	Solid	DI Leach	
880-60810-26	S-11	Soluble	Solid	DI Leach	
880-60810-27	S-12	Soluble	Solid	DI Leach	
880-60810-28	S-13	Soluble	Solid	DI Leach	
MB 880-115110/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115110/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115110/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60810-12 MS	B-12	Soluble	Solid	DI Leach	
880-60810-12 MSD	B-12	Soluble	Solid	DI Leach	
880-60810-22 MS	S-7	Soluble	Solid	DI Leach	
880-60810-22 MSD	S-7	Soluble	Solid	DI Leach	

Leach Batch: 115124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Soluble	Solid	DI Leach	
880-60810-2	B-2	Soluble	Solid	DI Leach	
880-60810-3	B-3	Soluble	Solid	DI Leach	
880-60810-4	B-4	Soluble	Solid	DI Leach	
880-60810-5	B-5	Soluble	Solid	DI Leach	
880-60810-6	B-6	Soluble	Solid	DI Leach	
880-60810-7	B-7	Soluble	Solid	DI Leach	
880-60810-8	B-8	Soluble	Solid	DI Leach	
880-60810-9	B-9	Soluble	Solid	DI Leach	
880-60810-10	B-10	Soluble	Solid	DI Leach	
880-60810-11	B-11	Soluble	Solid	DI Leach	
MB 880-115124/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60810-2 MS	B-2	Soluble	Solid	DI Leach	
880-60810-2 MSD	B-2	Soluble	Solid	DI Leach	

Analysis Batch: 115189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-1	B-1	Soluble	Solid	300.0	115124
880-60810-2	B-2	Soluble	Solid	300.0	115124
880-60810-3	B-3	Soluble	Solid	300.0	115124
880-60810-4	B-4	Soluble	Solid	300.0	115124
880-60810-5	B-5	Soluble	Solid	300.0	115124
880-60810-6	B-6	Soluble	Solid	300.0	115124
880-60810-7	B-7	Soluble	Solid	300.0	115124
880-60810-8	B-8	Soluble	Solid	300.0	115124
880-60810-9	B-9	Soluble	Solid	300.0	115124
880-60810-10	B-10	Soluble	Solid	300.0	115124
880-60810-11	B-11	Soluble	Solid	300.0	115124

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 115189 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115124/1-A	Method Blank	Soluble	Solid	300.0	115124
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	300.0	115124
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115124
880-60810-2 MS	B-2	Soluble	Solid	300.0	115124
880-60810-2 MSD	B-2	Soluble	Solid	300.0	115124

Analysis Batch: 115191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60810-12	B-12	Soluble	Solid	300.0	115110
880-60810-13	B-13	Soluble	Solid	300.0	115110
880-60810-14	B-14	Soluble	Solid	300.0	115110
880-60810-15	B-15	Soluble	Solid	300.0	115110
880-60810-16	S-1	Soluble	Solid	300.0	115110
880-60810-17	S-2	Soluble	Solid	300.0	115110
880-60810-18	S-3	Soluble	Solid	300.0	115110
880-60810-19	S-4	Soluble	Solid	300.0	115110
880-60810-20	S-5	Soluble	Solid	300.0	115110
880-60810-21	S-6	Soluble	Solid	300.0	115110
880-60810-22	S-7	Soluble	Solid	300.0	115110
880-60810-23	S-8	Soluble	Solid	300.0	115110
880-60810-24	S-9	Soluble	Solid	300.0	115110
880-60810-25	S-10	Soluble	Solid	300.0	115110
880-60810-26	S-11	Soluble	Solid	300.0	115110
880-60810-27	S-12	Soluble	Solid	300.0	115110
880-60810-28	S-13	Soluble	Solid	300.0	115110
MB 880-115110/1-A	Method Blank	Soluble	Solid	300.0	115110
LCS 880-115110/2-A	Lab Control Sample	Soluble	Solid	300.0	115110
LCSD 880-115110/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115110
880-60810-12 MS	B-12	Soluble	Solid	300.0	115110
880-60810-12 MSD	B-12	Soluble	Solid	300.0	115110
880-60810-22 MS	S-7	Soluble	Solid	300.0	115110
880-60810-22 MSD	S-7	Soluble	Solid	300.0	115110

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-1

Lab Sample ID: 880-60810-1
Matrix: Solid
Date Collected: 07/24/25 09:30
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/28/25 22:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/28/25 22:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 19:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:15	CS	EET MID

Client Sample ID: B-2

Lab Sample ID: 880-60810-2
Matrix: Solid
Date Collected: 07/24/25 10:55
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/28/25 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/28/25 22:52	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 19:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:21	CS	EET MID

Client Sample ID: B-3

Lab Sample ID: 880-60810-3
Matrix: Solid
Date Collected: 07/24/25 09:33
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/28/25 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/28/25 23:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 19:50	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:38	CS	EET MID

Client Sample ID: B-4

Lab Sample ID: 880-60810-4
Matrix: Solid
Date Collected: 07/24/25 09:36
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/28/25 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/28/25 23:33	SA	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-4
Date Collected: 07/24/25 09:36
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 20:06	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:44	CS	EET MID

Client Sample ID: B-5
Date Collected: 07/24/25 09:39
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/28/25 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/28/25 23:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:01	CS	EET MID

Client Sample ID: B-6
Date Collected: 07/24/25 09:42
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 00:14	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 20:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:06	CS	EET MID

Client Sample ID: B-7
Date Collected: 07/24/25 09:45
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 00:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 21:09	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-7

Date Collected: 07/24/25 09:45
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:12	CS	EET MID

Client Sample ID: B-8

Date Collected: 07/24/25 09:48
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 00:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 00:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 21:25	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:18	CS	EET MID

Client Sample ID: B-9

Date Collected: 07/24/25 09:51
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 01:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:41	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 21:41	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:23	CS	EET MID

Client Sample ID: B-10

Date Collected: 07/24/25 09:54
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 01:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 01:35	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 21:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:29	CS	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-11

Date Collected: 07/24/25 09:58
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 02:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 02:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 22:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 22:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 20:35	CS	EET MID

Client Sample ID: B-12

Date Collected: 07/24/25 10:58
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 03:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 03:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 22:29	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 22:29	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 19:10	CS	EET MID

Client Sample ID: B-13

Date Collected: 07/24/25 10:02
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 03:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 03:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 22:44	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 22:44	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 19:33	CS	EET MID

Client Sample ID: B-14

Date Collected: 07/24/25 10:06
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 04:00	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: B-14

Date Collected: 07/24/25 10:06
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115377	07/29/25 22:59	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 22:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 19:40	CS	EET MID

Client Sample ID: B-15

Date Collected: 07/24/25 10:10
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 04:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 17:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 17:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 19:48	CS	EET MID

Client Sample ID: S-1

Date Collected: 07/24/25 10:14
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 04:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 04:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 18:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 18:00	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 19:56	CS	EET MID

Client Sample ID: S-2

Date Collected: 07/24/25 10:18
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 05:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 18:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 18:15	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-2
Date Collected: 07/24/25 10:18
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:18	CS	EET MID

Client Sample ID: S-3
Date Collected: 07/24/25 10:21
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 18:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 18:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:26	CS	EET MID

Client Sample ID: S-4
Date Collected: 07/24/25 10:24
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 18:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 18:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:34	CS	EET MID

Client Sample ID: S-5
Date Collected: 07/24/25 10:28
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	115106	07/28/25 09:50	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115086	07/29/25 06:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 06:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 19:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:41	CS	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-6

Lab Sample ID: 880-60810-21
Matrix: Solid
Date Collected: 07/24/25 10:31
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 03:59	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 19:18	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:49	CS	EET MID

Client Sample ID: S-7

Lab Sample ID: 880-60810-22
Matrix: Solid
Date Collected: 07/24/25 10:34
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 04:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 19:34	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 20:57	CS	EET MID

Client Sample ID: S-8

Lab Sample ID: 880-60810-23
Matrix: Solid
Date Collected: 07/24/25 10:37
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 04:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 04:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 19:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 19:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 21:20	CS	EET MID

Client Sample ID: S-9

Lab Sample ID: 880-60810-24
Matrix: Solid
Date Collected: 07/24/25 10:40
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 05:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:00	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-9
Date Collected: 07/24/25 10:40
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 20:06	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 21:27	CS	EET MID

Client Sample ID: S-10
Date Collected: 07/24/25 10:43
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 05:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 21:50	CS	EET MID

Client Sample ID: S-11
Date Collected: 07/24/25 10:47
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 05:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 20:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 20:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 21:58	CS	EET MID

Client Sample ID: S-12
Date Collected: 07/24/25 10:50
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 06:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 21:09	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Client Sample ID: S-12

Date Collected: 07/24/25 10:50
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 22:05	CS	EET MID

Client Sample ID: S-13

Date Collected: 07/24/25 10:53
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60810-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 06:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115292	07/29/25 06:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			115377	07/29/25 21:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115107	07/28/25 09:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115274	07/29/25 21:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115110	07/28/25 10:24	SI	EET MID
Soluble	Analysis	300.0		1			115191	07/28/25 22:13	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60810-1
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: State J 2 #17

Job ID: 880-60810-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-60810-1	B-1	Solid	07/24/25 09:30	07/25/25 13:05	1.5'
880-60810-2	B-2	Solid	07/24/25 10:55	07/25/25 13:05	1.5'
880-60810-3	B-3	Solid	07/24/25 09:33	07/25/25 13:05	1.5'
880-60810-4	B-4	Solid	07/24/25 09:36	07/25/25 13:05	1.5'
880-60810-5	B-5	Solid	07/24/25 09:39	07/25/25 13:05	1.5'
880-60810-6	B-6	Solid	07/24/25 09:42	07/25/25 13:05	1.5'
880-60810-7	B-7	Solid	07/24/25 09:45	07/25/25 13:05	1.5'
880-60810-8	B-8	Solid	07/24/25 09:48	07/25/25 13:05	3'
880-60810-9	B-9	Solid	07/24/25 09:51	07/25/25 13:05	4'
880-60810-10	B-10	Solid	07/24/25 09:54	07/25/25 13:05	4'
880-60810-11	B-11	Solid	07/24/25 09:58	07/25/25 13:05	4'
880-60810-12	B-12	Solid	07/24/25 10:58	07/25/25 13:05	4'
880-60810-13	B-13	Solid	07/24/25 10:02	07/25/25 13:05	4'
880-60810-14	B-14	Solid	07/24/25 10:06	07/25/25 13:05	4'
880-60810-15	B-15	Solid	07/24/25 10:10	07/25/25 13:05	4'
880-60810-16	S-1	Solid	07/24/25 10:14	07/25/25 13:05	0-1.5'
880-60810-17	S-2	Solid	07/24/25 10:18	07/25/25 13:05	0-1.5'
880-60810-18	S-3	Solid	07/24/25 10:21	07/25/25 13:05	0-1.5'
880-60810-19	S-4	Solid	07/24/25 10:24	07/25/25 13:05	0-1.5'
880-60810-20	S-5	Solid	07/24/25 10:28	07/25/25 13:05	0-1.5'
880-60810-21	S-6	Solid	07/24/25 10:31	07/25/25 13:05	0-1.5'
880-60810-22	S-7	Solid	07/24/25 10:34	07/25/25 13:05	0-4'
880-60810-23	S-8	Solid	07/24/25 10:37	07/25/25 13:05	0-4'
880-60810-24	S-9	Solid	07/24/25 10:40	07/25/25 13:05	0-4'
880-60810-25	S-10	Solid	07/24/25 10:43	07/25/25 13:05	0-4'
880-60810-26	S-11	Solid	07/24/25 10:47	07/25/25 13:05	0-4'
880-60810-27	S-12	Solid	07/24/25 10:50	07/25/25 13:05	0-4'
880-60810-28	S-13	Solid	07/24/25 10:53	07/25/25 13:05	0-3'

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Chain of Custody

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

880-60810 Chain of Custody

www.xenco.com Page 1 of 3

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 # 17	Turn Around	
Project Number:	nAPP2511834534	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015M	BTEX	Chlorides	Sample Comments
B-1	S	7/24/25	0930	1.5'	C	1		X	X	X	
B-2			1055								
B-3			0933								
B-4			0936								
B-5			0939								
B-6			0942								
B-7			0945	↓							
B-8			0948	3'							
B-9			0951	4'							
B-10	↓	↓	0954	4'	↓	↓		↓	↓	↓	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 # 17	Turn Around	☒ Routine ☐ Rush
Project Number:	nAPP2511834534	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
B-11	S	7/24/25	0958	4'	C	1		X	X	X	
B-12			1058								
B-13			1002								
B-14			1006								
B-15			1010	↓							
S-1			1014	0-1.5'							
S-2			1018								
S-3			1021								
S-4			1024								
S-5	↓	↓	1028	↓	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575)441-7244 Email:	Email:	Cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	
Project Number:	nAPP2511834534	☒ Routine ☐ Rush	
Project Location:	Lea Co. NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
~~Bcc~~ S-6	S	7/24/25	1031	0-1.5'	C	1		X	X	X	
S-7			1034	0-4'							
S-8			1037								
S-9			1040								
S-10			1043								
S-11			1047								
S-12			1050								
S-13			1053	0-3'							

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-60810-1
SDG Number: Lea Co. NM

Login Number: 60810
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/18/2025 11:38:28 AM

JOB DESCRIPTION

State J 2 #17
Lea County, NM

JOB NUMBER

880-61300-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

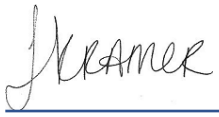
Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-61300-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: State J 2 #17

Job ID: 880-61300-1

Job ID: 880-61300-1 Eurofins Midland

Job Narrative
880-61300-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/8/2025 2:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.1°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (880-61300-1), S-2 (880-61300-2), S-6 (880-61300-3), S-10 (880-61300-4), S-11 (880-61300-5), S-12 (880-61300-6), B-3 (880-61300-7), B-4 (880-61300-8), B-5 (880-61300-9), B-12 (880-61300-10) and B-13 (880-61300-11).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-116277 and analytical batch 880-116443 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-116277 and analytical batch 880-116443 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (880-61300-1), S-6 (880-61300-3), S-10 (880-61300-4), S-11 (880-61300-5), S-12 (880-61300-6), B-3 (880-61300-7), B-4 (880-61300-8), B-5 (880-61300-9), B-12 (880-61300-10) and B-13 (880-61300-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-116251 and analytical batch 880-116852 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-1

Lab Sample ID: 880-61300-1
Matrix: Solid
Date Collected: 08/07/25 11:00
Date Received: 08/08/25 14:09
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		08/08/25 15:53	08/12/25 20:28	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/08/25 15:53	08/12/25 20:28	1
Ethylbenzene	**0.00158**	**J**	0.00198	0.00108	mg/Kg		08/08/25 15:53	08/12/25 20:28	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		08/08/25 15:53	08/12/25 20:28	1
o-Xylene	<0.00157	U *+	0.00198	0.00157	mg/Kg		08/08/25 15:53	08/12/25 20:28	1
Xylenes, Total	<0.00227	U *+	0.00397	0.00227	mg/Kg		08/08/25 15:53	08/12/25 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 20:28*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/08/25 15:53*	*08/12/25 20:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			08/12/25 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			08/17/25 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/08/25 13:20	08/17/25 02:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:51*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.15**	**J**	9.92	0.392	mg/Kg			08/13/25 05:58	1

Client Sample ID: S-2

Lab Sample ID: 880-61300-2
Matrix: Solid
Date Collected: 08/07/25 11:05
Date Received: 08/08/25 14:09
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		08/08/25 15:53	08/12/25 22:19	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/08/25 15:53	08/12/25 22:19	1
Ethylbenzene	**0.00126**	**J**	0.00198	0.00108	mg/Kg		08/08/25 15:53	08/12/25 22:19	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		08/08/25 15:53	08/12/25 22:19	1
o-Xylene	<0.00157	U *+	0.00198	0.00157	mg/Kg		08/08/25 15:53	08/12/25 22:19	1
Xylenes, Total	<0.00226	U *+	0.00396	0.00226	mg/Kg		08/08/25 15:53	08/12/25 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/08/25 15:53*	*08/12/25 22:19*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-2

Lab Sample ID: 880-61300-2
Matrix: Solid
Date Collected: 08/07/25 11:05
Date Received: 08/08/25 14:09
Sample Depth: 0-1.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/08/25 15:53*	*08/12/25 22:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			08/12/25 22:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/17/25 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 03:06	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:06*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.23**	**J**	9.94	0.393	mg/Kg			08/13/25 06:04	1

Client Sample ID: S-6

Lab Sample ID: 880-61300-3
Matrix: Solid
Date Collected: 08/07/25 11:10
Date Received: 08/08/25 14:09
Sample Depth: 0-2"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/08/25 15:53	08/12/25 22:40	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/08/25 15:53	08/12/25 22:40	1
Ethylbenzene	**0.00138**	**J**	0.00201	0.00109	mg/Kg		08/08/25 15:53	08/12/25 22:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/08/25 15:53	08/12/25 22:40	1
o-Xylene	<0.00159	U *+	0.00201	0.00159	mg/Kg		08/08/25 15:53	08/12/25 22:40	1
Xylenes, Total	<0.00229	U *+	0.00402	0.00229	mg/Kg		08/08/25 15:53	08/12/25 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 22:40*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/08/25 15:53*	*08/12/25 22:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/12/25 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			08/17/25 03:21	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-6

Lab Sample ID: 880-61300-3
Matrix: Solid
Date Collected: 08/07/25 11:10
Date Received: 08/08/25 14:09
Sample Depth: 0-2"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/08/25 13:20	08/17/25 03:21	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:21*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.55**	**J**	10.1	0.397	mg/Kg			08/13/25 06:09	1

Client Sample ID: S-10

Lab Sample ID: 880-61300-4
Matrix: Solid
Date Collected: 08/07/25 11:15
Date Received: 08/08/25 14:09
Sample Depth: 0-4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/08/25 15:53	08/12/25 23:00	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/08/25 15:53	08/12/25 23:00	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/08/25 15:53	08/12/25 23:00	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/08/25 15:53	08/12/25 23:00	1
o-Xylene	<0.00157	U *+	0.00199	0.00157	mg/Kg		08/08/25 15:53	08/12/25 23:00	1
Xylenes, Total	<0.00227	U *+	0.00398	0.00227	mg/Kg		08/08/25 15:53	08/12/25 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 23:00*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/08/25 15:53*	*08/12/25 23:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/12/25 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/17/25 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 03:38	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:38	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:38*	*1*
o-Terphenyl	*123*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:38*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-10

Lab Sample ID: 880-61300-4
Matrix: Solid
Date Collected: 08/07/25 11:15
Date Received: 08/08/25 14:09
Sample Depth: 0-4.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.98**	**J**	10.0	0.397	mg/Kg			08/13/25 06:26	1

Client Sample ID: S-11

Lab Sample ID: 880-61300-5
Matrix: Solid
Date Collected: 08/07/25 11:18
Date Received: 08/08/25 14:09
Sample Depth: 0-4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		08/08/25 15:53	08/12/25 23:20	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/08/25 15:53	08/12/25 23:20	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		08/08/25 15:53	08/12/25 23:20	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		08/08/25 15:53	08/12/25 23:20	1
o-Xylene	<0.00160	U *+	0.00202	0.00160	mg/Kg		08/08/25 15:53	08/12/25 23:20	1
Xylenes, Total	<0.00231	U *+	0.00404	0.00231	mg/Kg		08/08/25 15:53	08/12/25 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 23:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/08/25 15:53*	*08/12/25 23:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			08/12/25 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**35.8**	**J**	50.0	15.1	mg/Kg			08/17/25 03:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 03:53	1
Diesel Range Organics (Over C10-C28)	**17.8**	**J B**	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:53	1
Oil Range Organics (Over C28-C36)	**18.0**	**J**	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:53*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/08/25 13:20*	*08/17/25 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.00**	**J**	9.96	0.393	mg/Kg			08/13/25 06:32	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-12

Lab Sample ID: 880-61300-6
Matrix: Solid
Date Collected: 08/07/25 11:21
Date Received: 08/08/25 14:09
Sample Depth: 0-4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		08/08/25 15:53	08/12/25 23:41	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/08/25 15:53	08/12/25 23:41	1
Ethylbenzene	**0.00158**	**J**	0.00202	0.00110	mg/Kg		08/08/25 15:53	08/12/25 23:41	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		08/08/25 15:53	08/12/25 23:41	1
o-Xylene	<0.00160	U *+	0.00202	0.00160	mg/Kg		08/08/25 15:53	08/12/25 23:41	1
Xylenes, Total	<0.00230	U *+	0.00403	0.00230	mg/Kg		08/08/25 15:53	08/12/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 23:41*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*08/08/25 15:53*	*08/12/25 23:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			08/12/25 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			08/17/25 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/08/25 13:20	08/17/25 04:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:07	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:07*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.09**	**J**	9.90	0.391	mg/Kg			08/13/25 06:49	1

Client Sample ID: B-3

Lab Sample ID: 880-61300-7
Matrix: Solid
Date Collected: 08/07/25 11:25
Date Received: 08/08/25 14:09
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/08/25 15:53	08/13/25 00:01	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/08/25 15:53	08/13/25 00:01	1
Ethylbenzene	**0.00154**	**J**	0.00199	0.00108	mg/Kg		08/08/25 15:53	08/13/25 00:01	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/08/25 15:53	08/13/25 00:01	1
o-Xylene	<0.00157	U *+	0.00199	0.00157	mg/Kg		08/08/25 15:53	08/13/25 00:01	1
Xylenes, Total	<0.00227	U *+	0.00398	0.00227	mg/Kg		08/08/25 15:53	08/13/25 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/13/25 00:01*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-3

Lab Sample ID: 880-61300-7
Matrix: Solid
Date Collected: 08/07/25 11:25
Date Received: 08/08/25 14:09
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/08/25 15:53*	*08/13/25 00:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/13/25 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**35.1**	**J**	49.9	15.1	mg/Kg			08/17/25 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/08/25 13:20	08/17/25 04:22	1
Diesel Range Organics (Over C10-C28)	**18.1**	**J B**	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:22	1
Oil Range Organics (Over C28-C36)	**17.0**	**J**	49.9	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*101*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:22*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.38**	**J**	9.94	0.393	mg/Kg			08/13/25 06:55	1

Client Sample ID: B-4

Lab Sample ID: 880-61300-8
Matrix: Solid
Date Collected: 08/07/25 11:28
Date Received: 08/08/25 14:09
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/08/25 15:53	08/13/25 00:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/08/25 15:53	08/13/25 00:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/08/25 15:53	08/13/25 00:22	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/08/25 15:53	08/13/25 00:22	1
o-Xylene	<0.00158	U *+	0.00200	0.00158	mg/Kg		08/08/25 15:53	08/13/25 00:22	1
Xylenes, Total	<0.00228	U *+	0.00399	0.00228	mg/Kg		08/08/25 15:53	08/13/25 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/13/25 00:22*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/08/25 15:53*	*08/13/25 00:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/13/25 00:22	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-4

Lab Sample ID: 880-61300-8
Matrix: Solid
Date Collected: 08/07/25 11:28
Date Received: 08/08/25 14:09
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/17/25 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 04:37	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:37*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/08/25 13:20*	*08/17/25 04:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.20**	**J**	10.0	0.395	mg/Kg			08/13/25 07:00	1

Client Sample ID: B-5

Lab Sample ID: 880-61300-9
Matrix: Solid
Date Collected: 08/07/25 11:33
Date Received: 08/08/25 14:09
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/08/25 15:53	08/13/25 00:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/08/25 15:53	08/13/25 00:42	1
Ethylbenzene	**0.00187**	**J**	0.00200	0.00109	mg/Kg		08/08/25 15:53	08/13/25 00:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 00:42	1
o-Xylene	<0.00158	U *+	0.00200	0.00158	mg/Kg		08/08/25 15:53	08/13/25 00:42	1
Xylenes, Total	<0.00229	U *+	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/13/25 00:42*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/08/25 15:53*	*08/13/25 00:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/13/25 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			08/17/25 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/08/25 13:20	08/17/25 04:52	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:52	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 04:52	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-5

Lab Sample ID: 880-61300-9
Matrix: Solid
Date Collected: 08/07/25 11:33
Date Received: 08/08/25 14:09
Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/08/25 13:20	08/17/25 04:52	1
o-Terphenyl	115		70 - 130	08/08/25 13:20	08/17/25 04:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.43	J	9.98	0.394	mg/Kg			08/13/25 07:06	1

Client Sample ID: B-12

Lab Sample ID: 880-61300-10
Matrix: Solid
Date Collected: 08/07/25 11:37
Date Received: 08/08/25 14:09
Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/08/25 15:53	08/13/25 01:02	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/08/25 15:53	08/13/25 01:02	1
Ethylbenzene	0.00195	J	0.00200	0.00109	mg/Kg		08/08/25 15:53	08/13/25 01:02	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 01:02	1
o-Xylene	<0.00158	U *+	0.00200	0.00158	mg/Kg		08/08/25 15:53	08/13/25 01:02	1
Xylenes, Total	<0.00229	U *+	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	08/08/25 15:53	08/13/25 01:02	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/08/25 15:53	08/13/25 01:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/13/25 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.0	15.1	mg/Kg			08/16/25 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 14:52	08/16/25 22:37	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 22:37	1
Oil Range Organics (Over C28-C36)	18.7	J	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/08/25 14:52	08/16/25 22:37	1
o-Terphenyl	95		70 - 130	08/08/25 14:52	08/16/25 22:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.33	J	10.0	0.397	mg/Kg			08/13/25 07:12	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-13

Date Collected: 08/07/25 11:41
Date Received: 08/08/25 14:09
Sample Depth: 4.5'

Lab Sample ID: 880-61300-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/08/25 15:53	08/13/25 01:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/08/25 15:53	08/13/25 01:23	1
Ethylbenzene	**0.00220**		0.00200	0.00109	mg/Kg		08/08/25 15:53	08/13/25 01:23	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 01:23	1
o-Xylene	<0.00158	U *+	0.00200	0.00158	mg/Kg		08/08/25 15:53	08/13/25 01:23	1
Xylenes, Total	<0.00229	U *+	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/13/25 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/13/25 01:23*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/08/25 15:53*	*08/13/25 01:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/13/25 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/16/25 23:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 14:52	08/16/25 23:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 23:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/08/25 14:52*	*08/16/25 23:25*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/08/25 14:52*	*08/16/25 23:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.30**	**J**	10.1	0.399	mg/Kg			08/13/25 07:17	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-61283-A-1-C MS	Matrix Spike	123	98
880-61283-A-1-D MSD	Matrix Spike Duplicate	117	96
880-61300-1	S-1	139 S1+	110
880-61300-2	S-2	111	104
880-61300-3	S-6	133 S1+	109
880-61300-4	S-10	148 S1+	116
880-61300-5	S-11	133 S1+	101
880-61300-6	S-12	153 S1+	111
880-61300-7	B-3	133 S1+	108
880-61300-8	B-4	148 S1+	106
880-61300-9	B-5	136 S1+	109
880-61300-10	B-12	157 S1+	111
880-61300-11	B-13	151 S1+	107
LCS 880-116277/1-A	Lab Control Sample	110	89
LCSD 880-116277/2-A	Lab Control Sample Dup	128	96
MB 880-116277/5-A	Method Blank	170 S1+	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-61288-A-5-B MS	Matrix Spike	103	104
880-61288-A-5-C MSD	Matrix Spike Duplicate	120	122
880-61300-1	S-1	101	112
880-61300-2	S-2	97	107
880-61300-3	S-6	108	118
880-61300-4	S-10	112	123
880-61300-5	S-11	102	118
880-61300-6	S-12	102	112
880-61300-7	B-3	101	115
880-61300-8	B-4	103	116
880-61300-9	B-5	107	115
880-61300-10	B-12	99	95
880-61300-10 MS	B-12	98	88
880-61300-10 MSD	B-12	96	88
880-61300-11	B-13	99	94
LCS 880-116251/2-A	Lab Control Sample	116	129
LCS 880-116265/2-A	Lab Control Sample	104	117
LCSD 880-116251/3-A	Lab Control Sample Dup	119	121
LCSD 880-116265/3-A	Lab Control Sample Dup	117	108
MB 880-116251/1-A	Method Blank	90	104
MB 880-116265/1-A	Method Blank	71	70

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116277/5-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/08/25 15:53	08/12/25 16:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/12/25 16:55	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/08/25 15:53	08/12/25 16:55	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/08/25 15:53	08/12/25 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*170*	*S1+*	*70 - 130*	*08/08/25 15:53*	*08/12/25 16:55*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/08/25 15:53*	*08/12/25 16:55*	*1*

Lab Sample ID: LCS 880-116277/1-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09406		mg/Kg		94	70 - 130
Toluene	0.100	0.09738		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09799		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2283		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1204		mg/Kg		120	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-116277/2-A
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09770		mg/Kg		98	70 - 130	4	35
Toluene	0.100	0.09589		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09921		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2548		mg/Kg		127	70 - 130	11	35
o-Xylene	0.100	0.1373	*+	mg/Kg		137	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-61283-A-1-C MS
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09281		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.08782		mg/Kg		88	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

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

Lab Sample ID: 880-61283-A-1-C MS
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00291		0.100	0.07633		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1748		mg/Kg		87	70 - 130
o-Xylene	<0.00158	U *+	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-61283-A-1-D MSD
Matrix: Solid
Analysis Batch: 116443

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 116277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.08578		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08161		mg/Kg		82	70 - 130	7	35
Ethylbenzene	0.00291		0.100	0.07773		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1941		mg/Kg		97	70 - 130	10	35
o-Xylene	<0.00158	U *+	0.100	0.1072		mg/Kg		107	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

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

Lab Sample ID: MB 880-116251/1-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Diesel Range Organics (Over C10-C28)	15.90	J	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/08/25 13:20*	*08/16/25 20:20*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/08/25 13:20*	*08/16/25 20:20*	*1*

Lab Sample ID: LCS 880-116251/2-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105	70 - 130

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QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-116251/2-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-116251/3-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1152		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-61288-A-5-B MS
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1005		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	880.1		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-61288-A-5-C MSD
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1189		mg/Kg		119	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	1050		mg/Kg		105	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	122		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-116265/1-A
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116265

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 14:52	08/16/25 21:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 21:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 14:52	08/16/25 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*08/08/25 14:52*	*08/16/25 21:30*	*1*
o-Terphenyl	*70*		*70 - 130*	*08/08/25 14:52*	*08/16/25 21:30*	*1*

Lab Sample ID: LCS 880-116265/2-A
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	958.9		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-116265/3-A
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	934.4		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	913.0		mg/Kg		91	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-61300-10 MS
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: B-12
Prep Type: Total/NA
Prep Batch: 116265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	798.7		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	877.0		mg/Kg		88	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

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

Lab Sample ID: 880-61300-10 MS
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: B-12
Prep Type: Total/NA
Prep Batch: 116265

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-61300-10 MSD
Matrix: Solid
Analysis Batch: 116855

Client Sample ID: B-12
Prep Type: Total/NA
Prep Batch: 116265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	758.9		mg/Kg		76	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	838.6		mg/Kg		84	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116275/1-A
Matrix: Solid
Analysis Batch: 116482

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			08/13/25 04:33	1

Lab Sample ID: LCS 880-116275/2-A
Matrix: Solid
Analysis Batch: 116482

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.5		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-116275/3-A
Matrix: Solid
Analysis Batch: 116482

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.5		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-61300-3 MS
Matrix: Solid
Analysis Batch: 116482

Client Sample ID: S-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3.55	J	252	247.0		mg/Kg		97	90 - 110		

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-61300-3 MSD
Matrix: Solid
Analysis Batch: 116482

Client Sample ID: S-6
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.55	J	252	246.9		mg/Kg		97	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

GC VOA

Prep Batch: 116277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	5035	
880-61300-2	S-2	Total/NA	Solid	5035	
880-61300-3	S-6	Total/NA	Solid	5035	
880-61300-4	S-10	Total/NA	Solid	5035	
880-61300-5	S-11	Total/NA	Solid	5035	
880-61300-6	S-12	Total/NA	Solid	5035	
880-61300-7	B-3	Total/NA	Solid	5035	
880-61300-8	B-4	Total/NA	Solid	5035	
880-61300-9	B-5	Total/NA	Solid	5035	
880-61300-10	B-12	Total/NA	Solid	5035	
880-61300-11	B-13	Total/NA	Solid	5035	
MB 880-116277/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116277/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116277/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61283-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-61283-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	8021B	116277
880-61300-2	S-2	Total/NA	Solid	8021B	116277
880-61300-3	S-6	Total/NA	Solid	8021B	116277
880-61300-4	S-10	Total/NA	Solid	8021B	116277
880-61300-5	S-11	Total/NA	Solid	8021B	116277
880-61300-6	S-12	Total/NA	Solid	8021B	116277
880-61300-7	B-3	Total/NA	Solid	8021B	116277
880-61300-8	B-4	Total/NA	Solid	8021B	116277
880-61300-9	B-5	Total/NA	Solid	8021B	116277
880-61300-10	B-12	Total/NA	Solid	8021B	116277
880-61300-11	B-13	Total/NA	Solid	8021B	116277
MB 880-116277/5-A	Method Blank	Total/NA	Solid	8021B	116277
LCS 880-116277/1-A	Lab Control Sample	Total/NA	Solid	8021B	116277
LCSD 880-116277/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116277
880-61283-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	116277
880-61283-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116277

Analysis Batch: 116620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	Total BTEX	
880-61300-2	S-2	Total/NA	Solid	Total BTEX	
880-61300-3	S-6	Total/NA	Solid	Total BTEX	
880-61300-4	S-10	Total/NA	Solid	Total BTEX	
880-61300-5	S-11	Total/NA	Solid	Total BTEX	
880-61300-6	S-12	Total/NA	Solid	Total BTEX	
880-61300-7	B-3	Total/NA	Solid	Total BTEX	
880-61300-8	B-4	Total/NA	Solid	Total BTEX	
880-61300-9	B-5	Total/NA	Solid	Total BTEX	
880-61300-10	B-12	Total/NA	Solid	Total BTEX	
880-61300-11	B-13	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 116251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	8015NM Prep	
880-61300-2	S-2	Total/NA	Solid	8015NM Prep	
880-61300-3	S-6	Total/NA	Solid	8015NM Prep	
880-61300-4	S-10	Total/NA	Solid	8015NM Prep	
880-61300-5	S-11	Total/NA	Solid	8015NM Prep	
880-61300-6	S-12	Total/NA	Solid	8015NM Prep	
880-61300-7	B-3	Total/NA	Solid	8015NM Prep	
880-61300-8	B-4	Total/NA	Solid	8015NM Prep	
880-61300-9	B-5	Total/NA	Solid	8015NM Prep	
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 116265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-10	B-12	Total/NA	Solid	8015NM Prep	
880-61300-11	B-13	Total/NA	Solid	8015NM Prep	
MB 880-116265/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116265/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116265/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61300-10 MS	B-12	Total/NA	Solid	8015NM Prep	
880-61300-10 MSD	B-12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	8015B NM	116251
880-61300-2	S-2	Total/NA	Solid	8015B NM	116251
880-61300-3	S-6	Total/NA	Solid	8015B NM	116251
880-61300-4	S-10	Total/NA	Solid	8015B NM	116251
880-61300-5	S-11	Total/NA	Solid	8015B NM	116251
880-61300-6	S-12	Total/NA	Solid	8015B NM	116251
880-61300-7	B-3	Total/NA	Solid	8015B NM	116251
880-61300-8	B-4	Total/NA	Solid	8015B NM	116251
880-61300-9	B-5	Total/NA	Solid	8015B NM	116251
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015B NM	116251
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116251
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116251
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	116251
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116251

Analysis Batch: 116855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-10	B-12	Total/NA	Solid	8015B NM	116265
880-61300-11	B-13	Total/NA	Solid	8015B NM	116265
MB 880-116265/1-A	Method Blank	Total/NA	Solid	8015B NM	116265
LCS 880-116265/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116265
LCSD 880-116265/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116265
880-61300-10 MS	B-12	Total/NA	Solid	8015B NM	116265
880-61300-10 MSD	B-12	Total/NA	Solid	8015B NM	116265

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 116901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Total/NA	Solid	8015 NM	
880-61300-2	S-2	Total/NA	Solid	8015 NM	
880-61300-3	S-6	Total/NA	Solid	8015 NM	
880-61300-4	S-10	Total/NA	Solid	8015 NM	
880-61300-5	S-11	Total/NA	Solid	8015 NM	
880-61300-6	S-12	Total/NA	Solid	8015 NM	
880-61300-7	B-3	Total/NA	Solid	8015 NM	
880-61300-8	B-4	Total/NA	Solid	8015 NM	
880-61300-9	B-5	Total/NA	Solid	8015 NM	
880-61300-10	B-12	Total/NA	Solid	8015 NM	
880-61300-11	B-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Soluble	Solid	DI Leach	
880-61300-2	S-2	Soluble	Solid	DI Leach	
880-61300-3	S-6	Soluble	Solid	DI Leach	
880-61300-4	S-10	Soluble	Solid	DI Leach	
880-61300-5	S-11	Soluble	Solid	DI Leach	
880-61300-6	S-12	Soluble	Solid	DI Leach	
880-61300-7	B-3	Soluble	Solid	DI Leach	
880-61300-8	B-4	Soluble	Solid	DI Leach	
880-61300-9	B-5	Soluble	Solid	DI Leach	
880-61300-10	B-12	Soluble	Solid	DI Leach	
880-61300-11	B-13	Soluble	Solid	DI Leach	
MB 880-116275/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116275/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116275/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61300-3 MS	S-6	Soluble	Solid	DI Leach	
880-61300-3 MSD	S-6	Soluble	Solid	DI Leach	

Analysis Batch: 116482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61300-1	S-1	Soluble	Solid	300.0	116275
880-61300-2	S-2	Soluble	Solid	300.0	116275
880-61300-3	S-6	Soluble	Solid	300.0	116275
880-61300-4	S-10	Soluble	Solid	300.0	116275
880-61300-5	S-11	Soluble	Solid	300.0	116275
880-61300-6	S-12	Soluble	Solid	300.0	116275
880-61300-7	B-3	Soluble	Solid	300.0	116275
880-61300-8	B-4	Soluble	Solid	300.0	116275
880-61300-9	B-5	Soluble	Solid	300.0	116275
880-61300-10	B-12	Soluble	Solid	300.0	116275
880-61300-11	B-13	Soluble	Solid	300.0	116275
MB 880-116275/1-A	Method Blank	Soluble	Solid	300.0	116275
LCS 880-116275/2-A	Lab Control Sample	Soluble	Solid	300.0	116275
LCSD 880-116275/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116275
880-61300-3 MS	S-6	Soluble	Solid	300.0	116275
880-61300-3 MSD	S-6	Soluble	Solid	300.0	116275

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-1
Date Collected: 08/07/25 11:00
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 20:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 20:28	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 02:51	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 02:51	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 05:58	CS	EET MID

Client Sample ID: S-2
Date Collected: 08/07/25 11:05
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 22:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 22:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 03:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 03:06	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:04	CS	EET MID

Client Sample ID: S-6
Date Collected: 08/07/25 11:10
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 22:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 22:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 03:21	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 03:21	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:09	CS	EET MID

Client Sample ID: S-10
Date Collected: 08/07/25 11:15
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 23:00	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: S-10

Date Collected: 08/07/25 11:15
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			116901	08/17/25 03:38	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 03:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:26	CS	EET MID

Client Sample ID: S-11

Date Collected: 08/07/25 11:18
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 23:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 03:53	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 03:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:32	CS	EET MID

Client Sample ID: S-12

Date Collected: 08/07/25 11:21
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/12/25 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/12/25 23:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 04:07	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 04:07	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:49	CS	EET MID

Client Sample ID: B-3

Date Collected: 08/07/25 11:25
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/13/25 00:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 04:22	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 04:22	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-3
Date Collected: 08/07/25 11:25
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 06:55	CS	EET MID

Client Sample ID: B-4
Date Collected: 08/07/25 11:28
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/13/25 00:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 04:37	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 04:37	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 07:00	CS	EET MID

Client Sample ID: B-5
Date Collected: 08/07/25 11:33
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/13/25 00:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/17/25 04:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 04:52	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 07:06	CS	EET MID

Client Sample ID: B-12
Date Collected: 08/07/25 11:37
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/13/25 01:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/16/25 22:37	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116265	08/08/25 14:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116855	08/16/25 22:37	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 07:12	CS	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Client Sample ID: B-13

Date Collected: 08/07/25 11:41
Date Received: 08/08/25 14:09

Lab Sample ID: 880-61300-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116277	08/08/25 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116443	08/13/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116620	08/13/25 01:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			116901	08/16/25 23:25	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116265	08/08/25 14:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116855	08/16/25 23:25	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116275	08/08/25 15:17	SMC	EET MID
Soluble	Analysis	300.0		1			116482	08/13/25 07:17	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, 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: State J 2 #17

Job ID: 880-61300-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-61300-1	S-1	Solid	08/07/25 11:00	08/08/25 14:09	0-1.5'
880-61300-2	S-2	Solid	08/07/25 11:05	08/08/25 14:09	0-1.5'
880-61300-3	S-6	Solid	08/07/25 11:10	08/08/25 14:09	0-2"
880-61300-4	S-10	Solid	08/07/25 11:15	08/08/25 14:09	0-4.5'
880-61300-5	S-11	Solid	08/07/25 11:18	08/08/25 14:09	0-4.5'
880-61300-6	S-12	Solid	08/07/25 11:21	08/08/25 14:09	0-4.5'
880-61300-7	B-3	Solid	08/07/25 11:25	08/08/25 14:09	2'
880-61300-8	B-4	Solid	08/07/25 11:28	08/08/25 14:09	2'
880-61300-9	B-5	Solid	08/07/25 11:33	08/08/25 14:09	2'
880-61300-10	B-12	Solid	08/07/25 11:37	08/08/25 14:09	4.5'
880-61300-11	B-13	Solid	08/07/25 11:41	08/08/25 14:09	4.5'

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Chain of Custody

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

880-61300 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575)441-7244 Email:	Email:	Cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	
Project Number:	nAPP2511834534	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR5
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-1.0
Total Containers:		Corrected Temperature:	-1.1

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015M	BTEX	Chlorides	Sample Comments
S-1	S	8/7/25	1100	0-1.5'	C	1		X	X	X	
S-2			1105	0-1.5'							
S-6			1110	0-2'							
S-10			1115	0-4.5'							
S-11			1118	0-4.5'							
S-12			1121	0-4.5'							
B-3			1125	2'							
B-4			1128	2'							
B-5			1133	2'							
B-12	↓	↓	1137	4.5'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		8/8/25 1409	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244 Email:		Cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	☒ Routine ☐ Rush
Project Number:	nAPP2511834534	Due Date:	
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	—		

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
B-13	S	8/7/25	1141	4.5'	C	1		X	X	X	

Preservative Codes

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		8/14/25 1909	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-61300-1
SDG Number: Lea County, NM

Login Number: 61300
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/30/2025 10:04:07 AM

JOB DESCRIPTION

State J 2 #17
Lea Co. NM

JOB NUMBER

880-60809-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

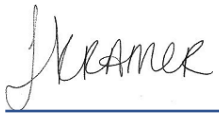
Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/30/2025 10:04:07 AM

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

Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-60809-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: State J 2 #17

Job ID: 880-60809-1

Job ID: 880-60809-1 Eurofins Midland

Job Narrative
880-60809-1

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 7/25/2025 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: B-1 (880-60809-1), B-2 (880-60809-2), S-1 (880-60809-3), S-2 (880-60809-4), S-3 (880-60809-5), S-4 (880-60809-6), S-5 (880-60809-7), S-6 (880-60809-8), S-7 (880-60809-9), S-8 (880-60809-10) and S-9 (880-60809-11).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: S-9 (880-60809-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-115092 and 880-115105 and analytical batch 880-115272 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-115124 and analytical batch 880-115189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: B-1

Lab Sample ID: 880-60809-1
Matrix: Solid
Date Collected: 07/24/25 11:00
Date Received: 07/25/25 13:05
Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/28/25 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:00*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/28/25 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.8	15.1	mg/Kg			07/30/25 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 08:41	07/30/25 05:57	1
Diesel Range Organics (Over C10-C28)	**121**		49.8	15.1	mg/Kg		07/28/25 08:41	07/30/25 05:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 08:41	07/30/25 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 08:41*	*07/30/25 05:57*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/28/25 08:41*	*07/30/25 05:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.7**		9.94	0.393	mg/Kg			07/28/25 18:01	1

Client Sample ID: B-2

Lab Sample ID: 880-60809-2
Matrix: Solid
Date Collected: 07/24/25 11:04
Date Received: 07/25/25 13:05
Sample Depth: 9'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/28/25 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:20*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: B-2

Lab Sample ID: 880-60809-2
Matrix: Solid
Date Collected: 07/24/25 11:04
Date Received: 07/25/25 13:05
Sample Depth: 9'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/28/25 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**34.4**	**J**	49.9	15.1	mg/Kg			07/30/25 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 08:41	07/30/25 06:13	1
Diesel Range Organics (Over C10-C28)	**34.4**	**J**	49.9	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:13*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.69**	**J**	10.1	0.398	mg/Kg			07/28/25 18:09	1

Client Sample ID: S-1

Lab Sample ID: 880-60809-3
Matrix: Solid
Date Collected: 07/24/25 11:08
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/28/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:41*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/28/25 09:44*	*07/28/25 23:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			07/28/25 23:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/30/25 06:30	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-1

Lab Sample ID: 880-60809-3
Matrix: Solid
Date Collected: 07/24/25 11:08
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 08:41	07/30/25 06:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:30*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**	**F1**	50.3	1.99	mg/Kg			07/28/25 18:02	5

Client Sample ID: S-2

Lab Sample ID: 880-60809-4
Matrix: Solid
Date Collected: 07/24/25 11:10
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:01*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			07/30/25 06:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.2	14.6	mg/Kg		07/28/25 08:41	07/30/25 06:45	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		07/28/25 08:41	07/30/25 06:45	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		07/28/25 08:41	07/30/25 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:45*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/28/25 08:41*	*07/30/25 06:45*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-2

Lab Sample ID: 880-60809-4
Matrix: Solid
Date Collected: 07/24/25 11:10
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**471**		9.98	0.394	mg/Kg			07/28/25 18:19	1

Client Sample ID: S-3

Lab Sample ID: 880-60809-5
Matrix: Solid
Date Collected: 07/24/25 11:14
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:22*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/25 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.0**	**J**	50.1	15.1	mg/Kg			07/30/25 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		07/28/25 08:41	07/30/25 07:02	1
Diesel Range Organics (Over C10-C28)	**50.0**	**J**	50.1	15.1	mg/Kg		07/28/25 08:41	07/30/25 07:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		07/28/25 08:41	07/30/25 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/28/25 08:41*	*07/30/25 07:02*	*1*
o-Terphenyl	*92*		*70 - 130*	*07/28/25 08:41*	*07/30/25 07:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**538**		50.5	1.99	mg/Kg			07/28/25 18:25	5

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-4

Lab Sample ID: 880-60809-6
Matrix: Solid
Date Collected: 07/24/25 11:18
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:42*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 00:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/25 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**49.5**	**J**	49.9	15.1	mg/Kg			07/29/25 17:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 17:12	1
Diesel Range Organics (Over C10-C28)	**49.5**	**J**	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 17:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 17:12*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1350**		10.0	0.396	mg/Kg			07/28/25 18:30	1

Client Sample ID: S-5

Lab Sample ID: 880-60809-7
Matrix: Solid
Date Collected: 07/24/25 11:21
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
m-Xylene & p-Xylene	**0.00558**		0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
Xylenes, Total	**0.00558**		0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:03*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-5

Date Collected: 07/24/25 11:21
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Lab Sample ID: 880-60809-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00558**		0.00402	0.00229	mg/Kg			07/29/25 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2870**		250	75.6	mg/Kg			07/29/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<72.6	U	250	72.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5
Diesel Range Organics (Over C10-C28)	**2870**		250	75.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5
Oil Range Organics (Over C28-C36)	<75.6	U	250	75.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:00*	*5*
o-Terphenyl	*128*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:00*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**551**		9.96	0.393	mg/Kg			07/28/25 18:36	1

Client Sample ID: S-6

Date Collected: 07/24/25 11:25
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Lab Sample ID: 880-60809-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:23*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			07/29/25 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**47.3**	**J**	49.9	15.1	mg/Kg			07/29/25 18:15	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-6

Lab Sample ID: 880-60809-8
Matrix: Solid
Date Collected: 07/24/25 11:25
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 18:15	1
Diesel Range Organics (Over C10-C28)	**47.3**	**J**	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:15*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.3**		10.1	0.399	mg/Kg			07/28/25 18:53	1

Client Sample ID: S-7

Lab Sample ID: 880-60809-9
Matrix: Solid
Date Collected: 07/24/25 11:29
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:44*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 01:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/25 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**164**		50.0	15.1	mg/Kg			07/29/25 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 18:31	1
Diesel Range Organics (Over C10-C28)	**164**		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:31*	*1*
o-Terphenyl	*99*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:31*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-7

Lab Sample ID: 880-60809-9
Matrix: Solid
Date Collected: 07/24/25 11:29
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		10.1	0.397	mg/Kg			07/28/25 18:58	1

Client Sample ID: S-8

Lab Sample ID: 880-60809-10
Matrix: Solid
Date Collected: 07/24/25 11:34
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*07/28/25 09:44*	*07/29/25 02:04*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/28/25 09:44*	*07/29/25 02:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/25 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**121**		49.9	15.1	mg/Kg			07/29/25 18:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 18:47	1
Diesel Range Organics (Over C10-C28)	**121**		49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:47*	*1*
o-Terphenyl	*96*		*70 - 130*	*07/28/25 09:50*	*07/29/25 18:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.87**	**J**	9.98	0.394	mg/Kg			07/28/25 19:04	1

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-9

Date Collected: 07/24/25 11:39
Date Received: 07/25/25 13:05
Sample Depth: 0-4'

Lab Sample ID: 880-60809-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/29/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*07/28/25 09:44*	*07/29/25 03:38*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/28/25 09:44*	*07/29/25 03:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			07/29/25 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/29/25 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 19:03	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:03*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/28/25 09:50*	*07/29/25 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		10.1	0.398	mg/Kg			07/28/25 19:10	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
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)
880-60809-1	B-1	126	92
880-60809-1 MS	B-1	124	98
880-60809-1 MSD	B-1	124	97
880-60809-2	B-2	126	92
880-60809-3	S-1	127	91
880-60809-4	S-2	126	91
880-60809-5	S-3	125	93
880-60809-6	S-4	129	92
880-60809-7	S-5	126	93
880-60809-8	S-6	127	92
880-60809-9	S-7	125	92
880-60809-10	S-8	124	90
880-60809-11	S-9	137 S1+	92
LCS 880-115100/1-A	Lab Control Sample	120	99
LCSD 880-115100/2-A	Lab Control Sample Dup	121	99
MB 880-114949/5-A	Method Blank	116	88
MB 880-115100/5-A	Method Blank	122	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-60775-A-1-F MS	Matrix Spike	98	90
880-60775-A-1-G MSD	Matrix Spike Duplicate	96	88
880-60809-1	B-1	102	104
880-60809-2	B-2	100	97
880-60809-3	S-1	102	100
880-60809-4	S-2	104	100
880-60809-5	S-3	95	92
880-60809-6	S-4	103	102
880-60809-6 MS	S-4	95	100
880-60809-6 MSD	S-4	95	101
880-60809-7	S-5	103	128
880-60809-8	S-6	104	105
880-60809-9	S-7	102	99
880-60809-10	S-8	98	96
880-60809-11	S-9	104	103
LCS 880-115092/2-A	Lab Control Sample	118	110
LCS 880-115105/2-A	Lab Control Sample	111	104
LCSD 880-115092/3-A	Lab Control Sample Dup	99	110
LCSD 880-115105/3-A	Lab Control Sample Dup	93	103
MB 880-115092/1-A	Method Blank	98	104
MB 880-115105/1-A	Method Blank	120	118

Surrogate Legend

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114949/5-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 114949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*07/24/25 14:24*	*07/28/25 11:42*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*07/24/25 14:24*	*07/28/25 11:42*	*1*

Lab Sample ID: MB 880-115100/5-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/28/25 09:44*	*07/28/25 22:38*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/28/25 09:44*	*07/28/25 22:38*	*1*

Lab Sample ID: LCS 880-115100/1-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09963		mg/Kg		100	70 - 130
Toluene	0.100	0.08698		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09127		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09100		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-115100/2-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	13	35

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-115100/2-A
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09992		mg/Kg		100	70 - 130	14	35
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.2050		mg/Kg		102	70 - 130	15	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-60809-1 MS
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09434		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.07874		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1514		mg/Kg		76	70 - 130
o-Xylene	<0.00158	U	0.100	0.07860		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-60809-1 MSD
Matrix: Solid
Analysis Batch: 115087

Client Sample ID: B-1
Prep Type: Total/NA
Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09942		mg/Kg		99	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08399		mg/Kg		84	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.08188		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1567		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00158	U	0.100	0.08088		mg/Kg		81	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-115092/1-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.02	J	50.0	14.5	mg/Kg		07/28/25 08:37	07/30/25 00:20	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-115092/1-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:37	07/30/25 00:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:37	07/30/25 00:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*07/28/25 08:37*	*07/30/25 00:20*	*1*
o-Terphenyl	*104*		*70 - 130*	*07/28/25 08:37*	*07/30/25 00:20*	*1*

Lab Sample ID: LCS 880-115092/2-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115092

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	969.9		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: LCSD 880-115092/3-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115092

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1029		mg/Kg		103	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1031		mg/Kg		103	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-60775-A-1-F MS
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	22.3	J B	999	784.1		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	999	815.3		mg/Kg		82	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-60775-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115092**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	22.3	J B	999	774.2		mg/Kg		75	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	789.2		mg/Kg		79	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: MB 880-115105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.69	J	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*07/28/25 09:50*	*07/29/25 16:14*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/28/25 09:50*	*07/29/25 16:14*	*1*

Lab Sample ID: LCS 880-115105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	966.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	917.1		mg/Kg		92	70 - 130		

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

Lab Sample ID: LCSD 880-115105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 115272 — **Prep Batch: 115105**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	963.3		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	975.5		mg/Kg		98	70 - 130	6	20

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-115105/3-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115105

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-60809-6 MS
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: S-4
Prep Type: Total/NA
Prep Batch: 115105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	829.5		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	49.5	J	999	922.0		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-60809-6 MSD
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: S-4
Prep Type: Total/NA
Prep Batch: 115105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	846.6		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	49.5	J	999	938.0		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115119/1-A
Matrix: Solid
Analysis Batch: 115158

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			07/28/25 14:20	1

Lab Sample ID: LCS 880-115119/2-A
Matrix: Solid
Analysis Batch: 115158

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-115119/3-A
Matrix: Solid
Analysis Batch: 115158

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.6		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-60775-A-1-I MS
Matrix: Solid
Analysis Batch: 115158

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.47	J	252	261.5		mg/Kg		102	90 - 110

Lab Sample ID: 880-60775-A-1-J MSD
Matrix: Solid
Analysis Batch: 115158

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.47	J	252	263.8		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-115124/1-A
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			07/28/25 17:45	1

Lab Sample ID: LCS 880-115124/2-A
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	238.1		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-115124/3-A
Matrix: Solid
Analysis Batch: 115189

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-60809-3 MS
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: S-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1600	F1	1260	3282	F1	mg/Kg		134	90 - 110

Lab Sample ID: 880-60809-3 MSD
Matrix: Solid
Analysis Batch: 115189

Client Sample ID: S-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1600	F1	1260	3292	F1	mg/Kg		135	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 114949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-114949/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 115087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8021B	115100
880-60809-2	B-2	Total/NA	Solid	8021B	115100
880-60809-3	S-1	Total/NA	Solid	8021B	115100
880-60809-4	S-2	Total/NA	Solid	8021B	115100
880-60809-5	S-3	Total/NA	Solid	8021B	115100
880-60809-6	S-4	Total/NA	Solid	8021B	115100
880-60809-7	S-5	Total/NA	Solid	8021B	115100
880-60809-8	S-6	Total/NA	Solid	8021B	115100
880-60809-9	S-7	Total/NA	Solid	8021B	115100
880-60809-10	S-8	Total/NA	Solid	8021B	115100
880-60809-11	S-9	Total/NA	Solid	8021B	115100
MB 880-114949/5-A	Method Blank	Total/NA	Solid	8021B	114949
MB 880-115100/5-A	Method Blank	Total/NA	Solid	8021B	115100
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	8021B	115100
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115100
880-60809-1 MS	B-1	Total/NA	Solid	8021B	115100
880-60809-1 MSD	B-1	Total/NA	Solid	8021B	115100

Prep Batch: 115100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	5035	
880-60809-2	B-2	Total/NA	Solid	5035	
880-60809-3	S-1	Total/NA	Solid	5035	
880-60809-4	S-2	Total/NA	Solid	5035	
880-60809-5	S-3	Total/NA	Solid	5035	
880-60809-6	S-4	Total/NA	Solid	5035	
880-60809-7	S-5	Total/NA	Solid	5035	
880-60809-8	S-6	Total/NA	Solid	5035	
880-60809-9	S-7	Total/NA	Solid	5035	
880-60809-10	S-8	Total/NA	Solid	5035	
880-60809-11	S-9	Total/NA	Solid	5035	
MB 880-115100/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60809-1 MS	B-1	Total/NA	Solid	5035	
880-60809-1 MSD	B-1	Total/NA	Solid	5035	

Analysis Batch: 115306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	Total BTEX	
880-60809-2	B-2	Total/NA	Solid	Total BTEX	
880-60809-3	S-1	Total/NA	Solid	Total BTEX	
880-60809-4	S-2	Total/NA	Solid	Total BTEX	
880-60809-5	S-3	Total/NA	Solid	Total BTEX	
880-60809-6	S-4	Total/NA	Solid	Total BTEX	
880-60809-7	S-5	Total/NA	Solid	Total BTEX	
880-60809-8	S-6	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 115306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-9	S-7	Total/NA	Solid	Total BTEX	
880-60809-10	S-8	Total/NA	Solid	Total BTEX	
880-60809-11	S-9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 115092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015NM Prep	
880-60809-2	B-2	Total/NA	Solid	8015NM Prep	
880-60809-3	S-1	Total/NA	Solid	8015NM Prep	
880-60809-4	S-2	Total/NA	Solid	8015NM Prep	
880-60809-5	S-3	Total/NA	Solid	8015NM Prep	
MB 880-115092/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115092/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115092/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60775-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-60775-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 115105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-6	S-4	Total/NA	Solid	8015NM Prep	
880-60809-7	S-5	Total/NA	Solid	8015NM Prep	
880-60809-8	S-6	Total/NA	Solid	8015NM Prep	
880-60809-9	S-7	Total/NA	Solid	8015NM Prep	
880-60809-10	S-8	Total/NA	Solid	8015NM Prep	
880-60809-11	S-9	Total/NA	Solid	8015NM Prep	
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60809-6 MS	S-4	Total/NA	Solid	8015NM Prep	
880-60809-6 MSD	S-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015B NM	115092
880-60809-2	B-2	Total/NA	Solid	8015B NM	115092
880-60809-3	S-1	Total/NA	Solid	8015B NM	115092
880-60809-4	S-2	Total/NA	Solid	8015B NM	115092
880-60809-5	S-3	Total/NA	Solid	8015B NM	115092
880-60809-6	S-4	Total/NA	Solid	8015B NM	115105
880-60809-7	S-5	Total/NA	Solid	8015B NM	115105
880-60809-8	S-6	Total/NA	Solid	8015B NM	115105
880-60809-9	S-7	Total/NA	Solid	8015B NM	115105
880-60809-10	S-8	Total/NA	Solid	8015B NM	115105
880-60809-11	S-9	Total/NA	Solid	8015B NM	115105
MB 880-115092/1-A	Method Blank	Total/NA	Solid	8015B NM	115092
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015B NM	115105
LCS 880-115092/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115092
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115105
LCSD 880-115092/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115092

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 115272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115105
880-60775-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	115092
880-60775-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	115092
880-60809-6 MS	S-4	Total/NA	Solid	8015B NM	115105
880-60809-6 MSD	S-4	Total/NA	Solid	8015B NM	115105

Analysis Batch: 115383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015 NM	
880-60809-2	B-2	Total/NA	Solid	8015 NM	
880-60809-3	S-1	Total/NA	Solid	8015 NM	
880-60809-4	S-2	Total/NA	Solid	8015 NM	
880-60809-5	S-3	Total/NA	Solid	8015 NM	
880-60809-6	S-4	Total/NA	Solid	8015 NM	
880-60809-7	S-5	Total/NA	Solid	8015 NM	
880-60809-8	S-6	Total/NA	Solid	8015 NM	
880-60809-9	S-7	Total/NA	Solid	8015 NM	
880-60809-10	S-8	Total/NA	Solid	8015 NM	
880-60809-11	S-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Soluble	Solid	DI Leach	
880-60809-2	B-2	Soluble	Solid	DI Leach	
MB 880-115119/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115119/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115119/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60775-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60775-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 115124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-3	S-1	Soluble	Solid	DI Leach	
880-60809-4	S-2	Soluble	Solid	DI Leach	
880-60809-5	S-3	Soluble	Solid	DI Leach	
880-60809-6	S-4	Soluble	Solid	DI Leach	
880-60809-7	S-5	Soluble	Solid	DI Leach	
880-60809-8	S-6	Soluble	Solid	DI Leach	
880-60809-9	S-7	Soluble	Solid	DI Leach	
880-60809-10	S-8	Soluble	Solid	DI Leach	
880-60809-11	S-9	Soluble	Solid	DI Leach	
MB 880-115124/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60809-3 MS	S-1	Soluble	Solid	DI Leach	
880-60809-3 MSD	S-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

HPLC/IC

Analysis Batch: 115158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Soluble	Solid	300.0	115119
880-60809-2	B-2	Soluble	Solid	300.0	115119
MB 880-115119/1-A	Method Blank	Soluble	Solid	300.0	115119
LCS 880-115119/2-A	Lab Control Sample	Soluble	Solid	300.0	115119
LCSD 880-115119/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115119
880-60775-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	115119
880-60775-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	115119

Analysis Batch: 115189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-3	S-1	Soluble	Solid	300.0	115124
880-60809-4	S-2	Soluble	Solid	300.0	115124
880-60809-5	S-3	Soluble	Solid	300.0	115124
880-60809-6	S-4	Soluble	Solid	300.0	115124
880-60809-7	S-5	Soluble	Solid	300.0	115124
880-60809-8	S-6	Soluble	Solid	300.0	115124
880-60809-9	S-7	Soluble	Solid	300.0	115124
880-60809-10	S-8	Soluble	Solid	300.0	115124
880-60809-11	S-9	Soluble	Solid	300.0	115124
MB 880-115124/1-A	Method Blank	Soluble	Solid	300.0	115124
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	300.0	115124
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115124
880-60809-3 MS	S-1	Soluble	Solid	300.0	115124
880-60809-3 MSD	S-1	Soluble	Solid	300.0	115124

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: B-1
Date Collected: 07/24/25 11:00
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 05:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 05:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	115119	07/28/25 10:29	SI	EET MID
Soluble	Analysis	300.0		1			115158	07/28/25 18:01	CS	EET MID

Client Sample ID: B-2
Date Collected: 07/24/25 11:04
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 06:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115119	07/28/25 10:29	SI	EET MID
Soluble	Analysis	300.0		1			115158	07/28/25 18:09	CS	EET MID

Client Sample ID: S-1
Date Collected: 07/24/25 11:08
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 06:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:30	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		5			115189	07/28/25 18:02	CS	EET MID

Client Sample ID: S-2
Date Collected: 07/24/25 11:10
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:01	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-2

Lab Sample ID: 880-60809-4
Matrix: Solid
Date Collected: 07/24/25 11:10
Date Received: 07/25/25 13:05

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			115383	07/30/25 06:45	SA	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:19	CS	EET MID

Client Sample ID: S-3

Lab Sample ID: 880-60809-5
Matrix: Solid
Date Collected: 07/24/25 11:14
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 07:02	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 07:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		5			115189	07/28/25 18:25	CS	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-60809-6
Matrix: Solid
Date Collected: 07/24/25 11:18
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 17:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 17:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:30	CS	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-60809-7
Matrix: Solid
Date Collected: 07/24/25 11:21
Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	115272	07/29/25 18:00	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-5

Date Collected: 07/24/25 11:21
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:36	CS	EET MID

Client Sample ID: S-6

Date Collected: 07/24/25 11:25
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:15	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:53	CS	EET MID

Client Sample ID: S-7

Date Collected: 07/24/25 11:29
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:31	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:58	CS	EET MID

Client Sample ID: S-8

Date Collected: 07/24/25 11:34
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 02:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:04	CS	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-9

Date Collected: 07/24/25 11:39
Date Received: 07/25/25 13:05

Lab Sample ID: 880-60809-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 03:38	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 19:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 19:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:10	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
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: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-60809-1	B-1	Solid	07/24/25 11:00	07/25/25 13:05	6'
880-60809-2	B-2	Solid	07/24/25 11:04	07/25/25 13:05	9'
880-60809-3	S-1	Solid	07/24/25 11:08	07/25/25 13:05	0-4'
880-60809-4	S-2	Solid	07/24/25 11:10	07/25/25 13:05	0-4'
880-60809-5	S-3	Solid	07/24/25 11:14	07/25/25 13:05	0-4'
880-60809-6	S-4	Solid	07/24/25 11:18	07/25/25 13:05	0-4'
880-60809-7	S-5	Solid	07/24/25 11:21	07/25/25 13:05	0-4'
880-60809-8	S-6	Solid	07/24/25 11:25	07/25/25 13:05	0-4'
880-60809-9	S-7	Solid	07/24/25 11:29	07/25/25 13:05	0-4'
880-60809-10	S-8	Solid	07/24/25 11:34	07/25/25 13:05	0-4'
880-60809-11	S-9	Solid	07/24/25 11:39	07/25/25 13:05	0-4'

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Chain of Custody

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

880-60809 Chain of Custody

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Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	
Project Number:	nSAP0225252743	☒ Routine ☐ Rush	
Project Location:	Lea Co. NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.4

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
B-1	S	7/24/25	1100	6'	C	1	X	X	X	
B-2			1104	9'						
S-1			1108	0-4'						
S-2			1110							
S-3			1114							
S-4			1118							
S-5			1121							
S-6			1125							
S-7			1129							
S-8			1134							

Preservative Codes

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 # 17	Turn Around	
Project Number:	nSAP0225252743	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:		5128
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:		1.5
Total Containers:		Corrected Temperature:		1.4

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides
S-9	S	7/24/25	1139	0-4'	C	1		X	X	X

Preservative Codes

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

Sample Comments

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 805

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Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments

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

Project Name:	ARU # 17H	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	1.4

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015 M	Chlorides	Sample Comments
TS-1	S	7/24/25	1300	0-6"	C	1		X	X	
TS-2			1305							
TS-3			1310							
TS-4			1315							
TS-5			1320							
TS-6			1325							
TS-7			1330							
TS-8			1335							
TS-9			1340							
TS-10			1345							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/25/25 1305	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-60809-1
SDG Number: Lea Co. NM

Login Number: 60809
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/18/2025 10:43:25 AM

JOB DESCRIPTION

State J 2 #17
Lea County, NM

JOB NUMBER

880-61299-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

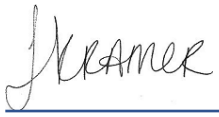
Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-61299-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: State J 2 #17

Job ID: 880-61299-1

Job ID: 880-61299-1 Eurofins Midland

Job Narrative
880-61299-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/8/2025 2:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.1°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (880-61299-1), S-8 (880-61299-2) and B-1 (880-61299-3).

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-116251 and analytical batch 880-116852 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116490 and analytical batch 880-116529 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Client Sample ID: S-7

Lab Sample ID: 880-61299-1
Matrix: Solid
Date Collected: 08/07/25 11:45
Date Received: 08/08/25 14:09
Sample Depth: 0-6.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		08/12/25 11:26	08/12/25 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/12/25 11:26*	*08/12/25 20:20*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/12/25 11:26*	*08/12/25 20:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			08/12/25 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			08/17/25 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 01:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 01:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/08/25 13:20*	*08/17/25 01:48*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/08/25 13:20*	*08/17/25 01:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.13**	**J F1**	9.92	0.392	mg/Kg			08/13/25 15:51	1

Client Sample ID: S-8

Lab Sample ID: 880-61299-2
Matrix: Solid
Date Collected: 08/07/25 11:49
Date Received: 08/08/25 14:09
Sample Depth: 0-6.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/12/25 11:26	08/12/25 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/12/25 11:26*	*08/12/25 20:40*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Client Sample ID: S-8

Lab Sample ID: 880-61299-2
Matrix: Solid
Date Collected: 08/07/25 11:49
Date Received: 08/08/25 14:09
Sample Depth: 0-6.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/12/25 11:26*	*08/12/25 20:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/12/25 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			08/17/25 02:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/08/25 13:20	08/17/25 02:05	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:05	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:05*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.72**	**J**	9.92	0.392	mg/Kg			08/13/25 16:08	1

Client Sample ID: B-1

Lab Sample ID: 880-61299-3
Matrix: Solid
Date Collected: 08/07/25 11:53
Date Received: 08/08/25 14:09
Sample Depth: 6.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/12/25 11:26	08/12/25 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*08/12/25 11:26*	*08/12/25 21:01*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/12/25 11:26*	*08/12/25 21:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/12/25 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.1**	**J**	49.7	15.0	mg/Kg			08/17/25 02:35	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Client Sample ID: B-1

Date Collected: 08/07/25 11:53
Date Received: 08/08/25 14:09
Sample Depth: 6.5'

Lab Sample ID: 880-61299-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		08/08/25 13:20	08/17/25 02:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		08/08/25 13:20	08/17/25 02:35	1
Oil Range Organics (Over C28-C36)	**15.1**	**J**	49.7	15.0	mg/Kg		08/08/25 13:20	08/17/25 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:35*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/08/25 13:20*	*08/17/25 02:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.00**	**J**	9.96	0.393	mg/Kg			08/13/25 16:14	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, 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)
880-61299-1	S-7	124	108
880-61299-2	S-8	116	105
880-61299-3	B-1	129	109
890-8615-A-21-B MS	Matrix Spike	103	95
890-8615-A-21-C MSD	Matrix Spike Duplicate	103	115
LCS 880-116494/1-A	Lab Control Sample	95	97
LCSD 880-116494/2-A	Lab Control Sample Dup	97	104
MB 880-116494/5-A	Method Blank	101	101

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-61288-A-5-B MS	Matrix Spike	103	104
880-61288-A-5-C MSD	Matrix Spike Duplicate	120	122
880-61299-1	S-7	96	108
880-61299-2	S-8	98	111
880-61299-3	B-1	102	116
LCS 880-116251/2-A	Lab Control Sample	116	129
LCSD 880-116251/3-A	Lab Control Sample Dup	119	121
MB 880-116251/1-A	Method Blank	90	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116494/5-A
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/12/25 11:26	08/12/25 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/12/25 11:26*	*08/12/25 12:49*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/12/25 11:26*	*08/12/25 12:49*	*1*

Lab Sample ID: LCS 880-116494/1-A
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09449		mg/Kg		94	70 - 130
Toluene	0.100	0.08710		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1735		mg/Kg		87	70 - 130
o-Xylene	0.100	0.09002		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-116494/2-A
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09780		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.08990		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130	4	35
o-Xylene	0.100	0.09256		mg/Kg		93	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8615-A-21-B MS
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08253		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07669		mg/Kg		77	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8615-A-21-B MS
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.100	0.08415		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1494		mg/Kg		75	70 - 130
o-Xylene	<0.00158	U	0.100	0.07545		mg/Kg		75	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-8615-A-21-C MSD
Matrix: Solid
Analysis Batch: 116437

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 116494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09458		mg/Kg		95	70 - 130	14	35
Toluene	<0.00200	U	0.100	0.08524		mg/Kg		85	70 - 130	11	35
Ethylbenzene	<0.00109	U	0.100	0.09506		mg/Kg		95	70 - 130	12	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1684		mg/Kg		84	70 - 130	12	35
o-Xylene	<0.00158	U	0.100	0.08552		mg/Kg		86	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

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

Lab Sample ID: MB 880-116251/1-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 116251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Diesel Range Organics (Over C10-C28)	15.90	J	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/08/25 13:20*	*08/16/25 20:20*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/08/25 13:20*	*08/16/25 20:20*	*1*

Lab Sample ID: LCS 880-116251/2-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-116251/2-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-116251/3-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116251

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1152		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-61288-A-5-B MS
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1005		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	880.1		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-61288-A-5-C MSD
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1189		mg/Kg		119	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	1050		mg/Kg		105	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	122		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116490/1-A
Matrix: Solid
Analysis Batch: 116529

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			08/13/25 15:34	1

Lab Sample ID: LCS 880-116490/2-A
Matrix: Solid
Analysis Batch: 116529

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	227.3		mg/Kg		91	90 - 110		

Lab Sample ID: LCSD 880-116490/3-A
Matrix: Solid
Analysis Batch: 116529

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	227.8		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-61299-1 MS
Matrix: Solid
Analysis Batch: 116529

Client Sample ID: S-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	6.13	J F1	248	219.8	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 880-61299-1 MSD
Matrix: Solid
Analysis Batch: 116529

Client Sample ID: S-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.13	J F1	248	220.6	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 116437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8021B	116494
880-61299-2	S-8	Total/NA	Solid	8021B	116494
880-61299-3	B-1	Total/NA	Solid	8021B	116494
MB 880-116494/5-A	Method Blank	Total/NA	Solid	8021B	116494
LCS 880-116494/1-A	Lab Control Sample	Total/NA	Solid	8021B	116494
LCSD 880-116494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116494
890-8615-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	116494
890-8615-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116494

Prep Batch: 116494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	5035	
880-61299-2	S-8	Total/NA	Solid	5035	
880-61299-3	B-1	Total/NA	Solid	5035	
MB 880-116494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8615-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8615-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	Total BTEX	
880-61299-2	S-8	Total/NA	Solid	Total BTEX	
880-61299-3	B-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015NM Prep	
880-61299-2	S-8	Total/NA	Solid	8015NM Prep	
880-61299-3	B-1	Total/NA	Solid	8015NM Prep	
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015B NM	116251
880-61299-2	S-8	Total/NA	Solid	8015B NM	116251
880-61299-3	B-1	Total/NA	Solid	8015B NM	116251
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015B NM	116251
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116251
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116251
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	116251
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116251

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 116900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015 NM	
880-61299-2	S-8	Total/NA	Solid	8015 NM	
880-61299-3	B-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Soluble	Solid	DI Leach	
880-61299-2	S-8	Soluble	Solid	DI Leach	
880-61299-3	B-1	Soluble	Solid	DI Leach	
MB 880-116490/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116490/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116490/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61299-1 MS	S-7	Soluble	Solid	DI Leach	
880-61299-1 MSD	S-7	Soluble	Solid	DI Leach	

Analysis Batch: 116529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Soluble	Solid	300.0	116490
880-61299-2	S-8	Soluble	Solid	300.0	116490
880-61299-3	B-1	Soluble	Solid	300.0	116490
MB 880-116490/1-A	Method Blank	Soluble	Solid	300.0	116490
LCS 880-116490/2-A	Lab Control Sample	Soluble	Solid	300.0	116490
LCSD 880-116490/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116490
880-61299-1 MS	S-7	Soluble	Solid	300.0	116490
880-61299-1 MSD	S-7	Soluble	Solid	300.0	116490

Lab Chronicle

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Client Sample ID: S-7

Lab Sample ID: 880-61299-1
Matrix: Solid
Date Collected: 08/07/25 11:45
Date Received: 08/08/25 14:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 20:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 01:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 01:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 15:51	CS	EET MID

Client Sample ID: S-8

Lab Sample ID: 880-61299-2
Matrix: Solid
Date Collected: 08/07/25 11:49
Date Received: 08/08/25 14:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 20:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 20:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 02:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 02:05	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 16:08	CS	EET MID

Client Sample ID: B-1

Lab Sample ID: 880-61299-3
Matrix: Solid
Date Collected: 08/07/25 11:53
Date Received: 08/08/25 14:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 21:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 02:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 02:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 16:14	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, 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: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-61299-1	S-7	Solid	08/07/25 11:45	08/08/25 14:09	0-6.5'
880-61299-2	S-8	Solid	08/07/25 11:49	08/08/25 14:09	0-6.5'
880-61299-3	B-1	Solid	08/07/25 11:53	08/08/25 14:09	6.5'

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Chain of Custody

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

880-61299 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

Work Order Comments

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

Project Name:	State J 2 #17	Turn Around	☒ Routine ☐ Rush
Project Number:	nSAP0225252743	Due Date:	
Project Location:	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-1.0
Total Containers:		Corrected Temperature:	-1.1

ANALYSIS REQUEST

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-7	S	8/7/25	1145	0-6.5'	C	1		X	X	X	
S-8	↓	↓	1149	0-6.5'	↓	↓		↓	↓	↓	
B-1	↓	↓	1153	6.5'	↓	↓		↓	↓	↓	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		8/8/25 1409	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-61299-1
SDG Number: Lea County, NM

Login Number: 61299
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Grain Environmental

Appendix D: Photographic Documentation

APPENDIX D
STATE J 2 #017


View to W of well pad excavation (8/7/25).


View to SW of well pad excavation (8/7/25).


View to S of well pad excavation (8/7/25).


View to E of W TB excavation (8/7/25).


View to NW of W TB excavation (8/7/25).


View to W of E TB excavation (8/7/25).


View to SW of TB excavations (8/7/25).


View to S of TB excavations (8/7/25).

APPENDIX D
STATE J 2 #017


View to SW of E TB excavation (8/7/25).


View to SE of TB excavations (8/7/25).


View to SE of W TB excavation (8/7/25).


View to SW of E TB excavation (8/7/25).


View to SE of TB excavations (8/7/25).

Grain Environmental

Appendix E: Waste Manifests

LEA LAND LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217114	Trailer No. MCVAY-208
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 06-30-2025 11:25 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 45820, 41640, 41880		
	Lease/Job Name: STATE J2 #017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455+		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): April Real Signature (Firma): X [signature] Date: 06-30-2025 11:25 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: [signature]	Unit No: IIB	Date 06-30-2025 / Time 11:25 AM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

LEA LAND
LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217115	Trailer No. MCVAY-209
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 06-30-2025 12:00 PM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 48040, 48340		
	Lease/Job Name: STATE J2 #017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455-		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Isaura Sepulveda Signature (Firma): X [signature] Date: 06-30-2025 12:00 PM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: [signature]	Unit No: IIB	Date 06-30-2025 / Time 12:00 PM

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NON-HAZARDOUS WASTE MANIFEST		No. 217162	Trailer No. MCVAY 308
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 07-01-2025 10:03 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 45700, 45940, 46140		
	Lease/Job Name: STATE J2 #017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-4554		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): April Real Signature (Firma): X _____ Date: 07-01-2025 10:03 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature:	Unit No: IIB / Date: 07-01-2025 / Time: 10:03 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 217207	Trailer No. MCVAY 209
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 07-03-2025 08:50 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 55640, 55840, 55980		
	Lease/Job Name: STATE J2 # 017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455[illegible]		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Laura Sepulveda Signature (Firma): X [signature] Date: 07-03-2025 08:50 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: Sandra L Avila	Unit No: IIB	Date 07-03-2025 / Time 08:50 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 217262	Trailer No. MC VAY 209
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 07-07-2025 10:45 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 48580		
	Lease/Job Name: STATE J2 #017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-4554		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Samantha Rhodes Signature (Firma): X [signature] Date: 07-07-2025 10:45 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: [signature]	Unit No: IIB	Date 07-07-2025 / Time 10:45 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 217255	Trailer No. MCVAY 208
GENERATOR	Company Name: Southwest Royalties Phone: (432) 685-9038	Address: 200 N. Lorraine St., #400 Midland, TX 79710	Disposal Date: 07-07-2025 10:21 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 56200, 25760		
	Lease/Job Name: STATE J2 #017		
	Generator's Representative: Merch Merchant		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455[illegible]		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): April Real Signature (Firma): X [signature] Date: 07-07-2025 10:21 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: [signature]	Unit No: IIB	Date 07-07-2025 / Time 10:21 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 218657	Trailer No. MC VAY 200
GENERATOR	Company Name: BXP Operating Phone: (281) 848-3696	Address: 11757 Katy FRWY, #475 Houston, TX 77079	Disposal Date: 08-25-2025 10:34 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 25400		
	Lease/Job Name: STATE J 2 # 017		
	Generator's Representative: Jason		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-4554		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Manuel D. Rodriguez Signature (Firma): X _____ Date: 08-25-2025 10:34 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature: Sandra L Arvizu	Unit No: IIB	Date 08-25-2025 / Time 10:34 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 218652	Trailer No. MCVAY-209
GENERATOR	Company Name: BXP Operating Phone: (281) 848-3696	Address: 11757 Katy FRWY, #475 Houston, TX 77079	Disposal Date: 08-25-2025 09:49 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 49480,		
	Lease/Job Name: STATE J #2		
	Generator's Representative: Jason		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455-		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): X Mauro Sepulveda Signature (Firma): X _____ Date: 08-25-2025 09:49 AM		
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature:	Unit No: IIB	Date 08-25-2025 / Time 09:49 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 218644	Trailer No. MCVAY-205
GENERATOR	Company Name: BXP Operating Phone: (281) 848-3696	Address: 11757 Katy FRWY, #475 Houston, TX 77079	Disposal Date: 08-25-2025 09:25 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 49980,		
	Lease/Job Name: STATE J #2		
	Generator's Representative: Jason		
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-455		
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): April Real Signature (Firma): X	Date: 08-25-2025 09:25 AM	
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:	
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		
	Authorized Signature:	Unit No: IIB / Date: 08-25-2025 / Time: 09:25 AM	

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

QUESTIONS

Action 564575

QUESTIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2511834534**
Incident Name	**NAPP2511834534 STATE J 2 #017 @ 30-025-33277**
Incident Type	**Oil Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-025-33277] STATE J 2 #017**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	STATE J 2 #017
Date Release Discovered	04/02/2025
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 | Well | Crude Oil | Released: 19 BBL | Recovered: 0 BBL | Lost: 19 BBL.
Produced Water Released (bbls) Details	*Not answered.*
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)	This is a historical release being investigated and remediated at the request of SLO/ECO as the well has been P&A'd.

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QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026

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QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	311
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5620
GRO+DRO (EPA SW-846 Method 8015M)	5620
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/17/2025
On what date will (or did) the final sampling or liner inspection occur	06/30/2025
On what date will (or was) the remediation complete(d)	07/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	5447
What is the estimated volume (in cubic yards) that will be reclaimed	987
What is the estimated surface area (in square feet) that will be remediated	5447
What is the estimated volume (in cubic yards) that will be remediated	987
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	fAB0000000061 TNM-55-95
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**558785**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/04/2026**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**2193**

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	2193
What was the total volume (cubic yards) remediated	262
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	2193
What was the total volume (in cubic yards) reclaimed	262
Summarize any additional remediation activities not included by answers (above)	Upon NMOCD and ECO approval of this Closure request, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby source. The impacted surface area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026

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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	2193
What was the total volume of replacement material (in cubic yards) for this site	262
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	01/31/2028
Summarize any additional reclamation activities not included by answers (above)	Seeding will not be conducted as this is an active well pad and tank battery area.
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.	
Requesting a restoration complete approval with this submission	No
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.	

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CONDITIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564575
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Reclamation report approved. Pending re-vegetation report.	4/6/2026