Remediation Summary and Closure Report

July 9, 2024

State A A/C 2 #065 Injection Well Produced Water Release

Incident No.: nAPP2327749668

Prepared For:

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1.0 Introduction

Crain Environmental (CE), on behalf of FAE II Operating, LLC (FAE), has prepared this Remediation Summary and Closure Report for the produced water release at the State A A/C 2 #065 Injection Well (Site). The Site is located in Unit Letter E (SW/NW), Section 9, Township 22 South, Range 36 East, Lea County, New Mexico at global positioning system (GPS) coordinates of 32.409592°, -103.278313°. The property surface rights are owned by the State of New Mexico, and land use in the Site vicinity is primarily oil and gas production and cattle grazing. The location of the Release Site is depicted on Figure 1.

2.0 Background

On October 2, 2023, a leak from a storage tank resulted in the release of 130 barrels (bbls) of produced water. Immediately following the release, the area was secured, the source of the leak was repaired, and 100 bbls of fluid was recovered by vacuum truck. The released fluid flowed on the ground approximately 300 feet east of the tank. Most of the fluid collected in a low area located approximately 170 feet east of the well. Produced water impacts covered an area of approximately 3,600 square feet (sq ft). The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) by telephone.

On October 4, 2023, a Notice of Release (NOR) was submitted to the NMOCD, and the Site was assigned Incident Number nAPP2327749668. The Initial Release Notification Report (C-141) was immediately submitted to the NMOCD. A copy of the C-141 that includes revisions in red (Responsible Party, gps coordinates, Site Name, location, and Surface Owner) is provided in Appendix A. The release point and the surface extent of the release are depicted on Figure 2.

This Remediation Summary and Closure Report provides a summary of soil remediation activities conducted at the Site in accordance with 19.15.29 New Mexico Administrative Code (NMAC), and requests closure of Incident Number nAPP2327749668.

3.0 NMOCD Closure Criteria

Cleanup standards for oil 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.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well with recorded depth to groundwater information within a 0.5-mile radius of the Site. Well CP 01854 POD 1 was drilled in 2020 and lists a depth to groundwater of 190 feet below ground surface (bgs). Figure 3 shows the 0.5-mile radius and the location of well CP 01854 POD 1. The Point of Diversion Summary for the well is provided in Appendix B.

3.2 Surface Features and Other Development

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

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

- Based on the property and other records reviewed by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.

- Within the area overlying a subsurface mine
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. 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. Finally, the New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Figures 4, 5, and 6 depict the USFWS wetlands information, FEMA floodplain information, and the karst potential data, respectively.

3.4 Closure Criteria Applicable to the Site

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

NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

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

4.2 Depth to Groundwater

As discussed in Section 3.1, one water well with recorded depth to groundwater information within a 0.5-mile radius of the Site was identified in the NMOSE database. Well CP 01854 POD 1 was drilled in 2020 and lists a depth to groundwater of 190 feet below ground surface (bgs); therefore, depth to groundwater at the Site is estimated be greater than 100' bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. As listed in the NMOSE database, there is one water well within a 0.5-mile radius of the Site that reports depth to groundwater at 190' bgs. There were no 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 Delineation and Remediation Activities

Initial soil delineation activities were conducted by Terracon from December 19 to December 22, 2023. Details of delineation and remediation activities are provided in the following sections.

5.1 Summary of Delineation Activities

On December 19, 21, and 22, 2023, soil samples DS-01 through DS-18 were collected around the release area to determine the horizontal and vertical limits of impact. The samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chlorides. Appendix C provides a Delineation Sample Map prepared by Terracon. Even though analytical documentation was not provided by Terracon, the information was used to determine excavation areas.

5.2 Summary of Remediation Activities

On May 7, 2024, remediation of impacted soil began by hydro excavating the pipeline that runs north to south across the release area. From May 7 through May 13, 2024, excavation of impacted soil was conducted. All excavated soil was stored on plastic, pending disposal. On May 14, 2023, sample notification was provided to the NMOCD for confirmation samples to be collected on May 17, 2023.

On May 17, 2024, sidewall samples (S-1 through S-11) were collected from 11 locations around the perimeter of the excavation, and 8 samples (S-12 through S-19) were collected from the bottom of the excavation. The soil 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 TPH, BTEX, and chlorides. Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. The laboratory report is provided in Appendix D.

Referring to Table 1, all TPH, total BTEX, benzene, and chloride concentrations were reported below the test method detection limits or Closure Criteria.

5.3 Summary of Soil Disposal and Backfilling Activities

From May 11 through June 14, 2023, 1,464 cubic yards (cy) of soil was hauled to J&L Landfarm Inc (J&L) for disposal. Copies of the Waste Manifests are provided in Appendix E.

On June 13, 2024, eight samples were collected from the caliche (Caliche 1 through Caliche 8) and four samples were collected from the topsoil (Topsoil 1 through Topsoil 4) at a nearby pit. All samples were hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides. Table 1 provides a summary of the laboratory results. The laboratory report is provided in Appendix D. Referring to Table 1, all concentrations were reported below the test method detection limits or Closure Criteria.

From June 17 to June 24, 2024, soil from the pit was moved to the Site and the excavation was backfilled from the total depth to a depth of 2’ bgs with caliche, and from a depth of 2’ bgs to surface with topsoil. Upon completion of backfill, the excavation was contoured to original surface conditions. Photographic documentation is provided in Appendix F.

6.0 Reclamation Activities

As remediation extended into previously undisturbed areas, compliance with the Cultural Properties Protection (CPP) Rule was required. APAC conducted an Archaeological Survey/Inventory from May 31 to June 5, 2024. The Site was assigned NMCRIS Activity Number 155804, and the findings were Negative. Appendix G provides a copy of the Archaeological Report.

During the next favorable growing season, the backfilled excavation will be cross ripped to a minimum of 18 inches with a furrow spacing of 2 feet. Seeding will be conducted within 2 weeks following completion of final seedbed preparation. According to the United States Department of Agriculture (USDA) Web Soil Survey, soil at the State A A/C 2 #065 Injection Well is classified as Berino-Cacique association, hummocky (BH). The Revegetation Plan therefore requires the Sandy Loam (SL) NMSLO Seed Mix. Following surface grading and contouring, the Site will be re-seeded by seed drill method using the (SL)

NMSLO Seed Mix (planted in the amount specified in the pounds live seed (PLS) per acre), and fresh water will be applied for two consecutive weeks following re-seeding. The NMOCD and Environmental Compliance Office (ECO) will be notified at least 2 business days prior to the start of reclamation activities.

6.1 Reclamation Monitoring

The site will be monitored for vegetation growth to ensure that the reclamation activities performed were sufficient. Annual inspections (at a minimum) will take place on the location until revegetation has established at least 70% of local natural vegetation density. Upon completion of revegetation, a Final Reclamation Report will be submitted to the NMOCD and ECO.

6.2 Schedule of Implementation

Site reclamation activities will begin during the next favorable growing season. Activities will continue until all aspects of the workplan have been completed.

7.0 Closure Request

As confirmation samples reported all TPH, BTEX, and chloride concentrations below the closure criteria, and a total of 1,464 cy of impacted soil was hauled to disposal, FAE respectfully Closure of Incident # nAPP2327749668.

8.0 Distribution

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

Copy 2: Billy Moore
FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079

Copy 3: New Mexico State Land Office
Environmental Compliance Office
eco@slo.state.nm.us

TABLE

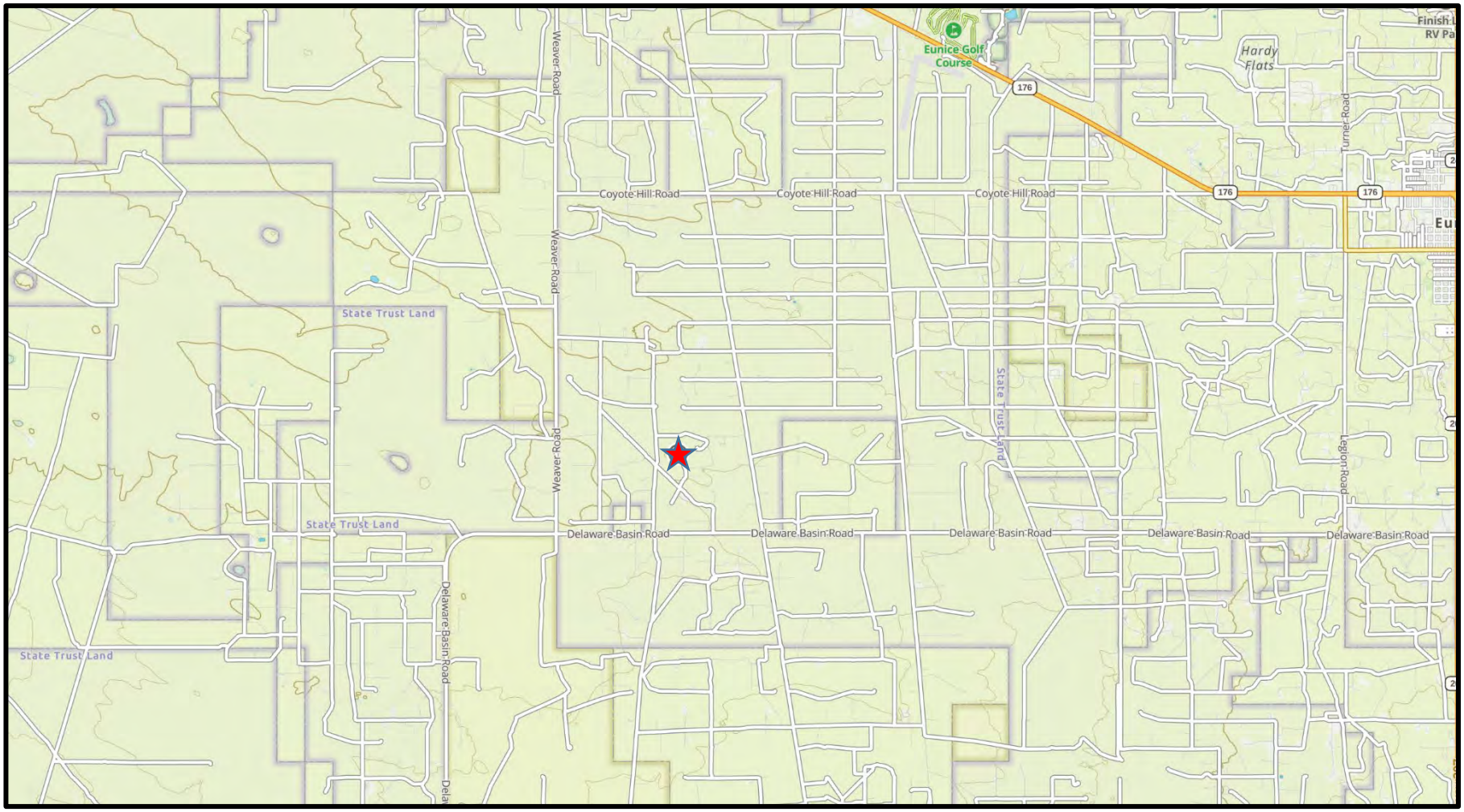
TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FAE II OPERATING, LLC
STATE A A/C 2 #065 INJECTION WELL
NMOCD INCIDENT # nAPP2327749668

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							**100**	**10**	**-**	**-**	**-**	**50**	**600**
NMOCD Closure Criteria (>4' bgs)				**GRO + DRO = 1,000**		**-**	**2,500**	**10**	**-**	**-**	**-**	**50**	**20,000**
S-1 (0-1')	05/17/24	0-1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<5.03
S-2 (0-1')	05/17/24	0-1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
S-3 (0-4')	05/17/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.05
S-4 (0-4')	05/17/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<5.00
S-5 (0-4')	05/17/24	0-4'	In Situ	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
S-6 (0-3')	05/17/24	0-3'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**5.31**
S-7 (0-1')	05/17/24	0-1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**22.9**
S-8 (0-1')	05/17/24	0-1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.00
S-9 (0-2')	05/17/24	0-2'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.01
S-10 (0-4')	05/17/24	0-4'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.01
S-11 (0-4')	05/17/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**8.80**
S-12 (4.1')	05/17/24	4.1'	In Situ	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**3,380**
S-13 (4.1')	05/17/24	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**4,670**
S-14 (4.1')	05/17/24	4.1'	In Situ	<49.8	**88.4**	<49.8	**88.4**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**1,000**
S-15 (4.1')	05/17/24	4.1'	In Situ	<49.9	**223**	<49.9	**223**	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**3,190**
S-16 (4.1')	05/17/24	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**3,060**
S-17 (1')	05/17/24	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**9.91**
S-18 (1')	05/17/24	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.95
S-19 (3')	05/17/24	3'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.98
Backfill Soil													
Caliche 1	06/13/24	--	Backfilled	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**48.5**
Caliche 2	06/13/24	--	Backfilled	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.05
Caliche 3	06/13/24	--	Backfilled	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**39.1**
Caliche 4	06/13/24	--	Backfilled	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**40.7**
Caliche 5	06/13/24	--	Backfilled	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**37.8**
Caliche 6	06/13/24	--	Backfilled	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**37.2**
Caliche 7	06/13/24	--	Backfilled	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**38.4**
Caliche 8	06/13/24	--	Backfilled	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**36.9**
Topsoil 1	06/13/24	--	Backfilled	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**42.6**
Topsoil 2	06/13/24	--	Backfilled	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**45.0**
Topsoil 3	06/13/24	--	Backfilled	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**38.2**
Topsoil 4	06/13/24	--	Backfilled	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**41.0**

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.

FIGURES



LEGEND:

Site Location

Base Map From GAIA GPS

Figure 1

Site Location Map

FAE II Operating, LLC

State A A/C 2 #65 Injection Well

Lea County, New Mexico

Drafted by: CC | Checked by: CC	
Draft: July 8, 2024	
GPS:	32.409592° -103.278313°

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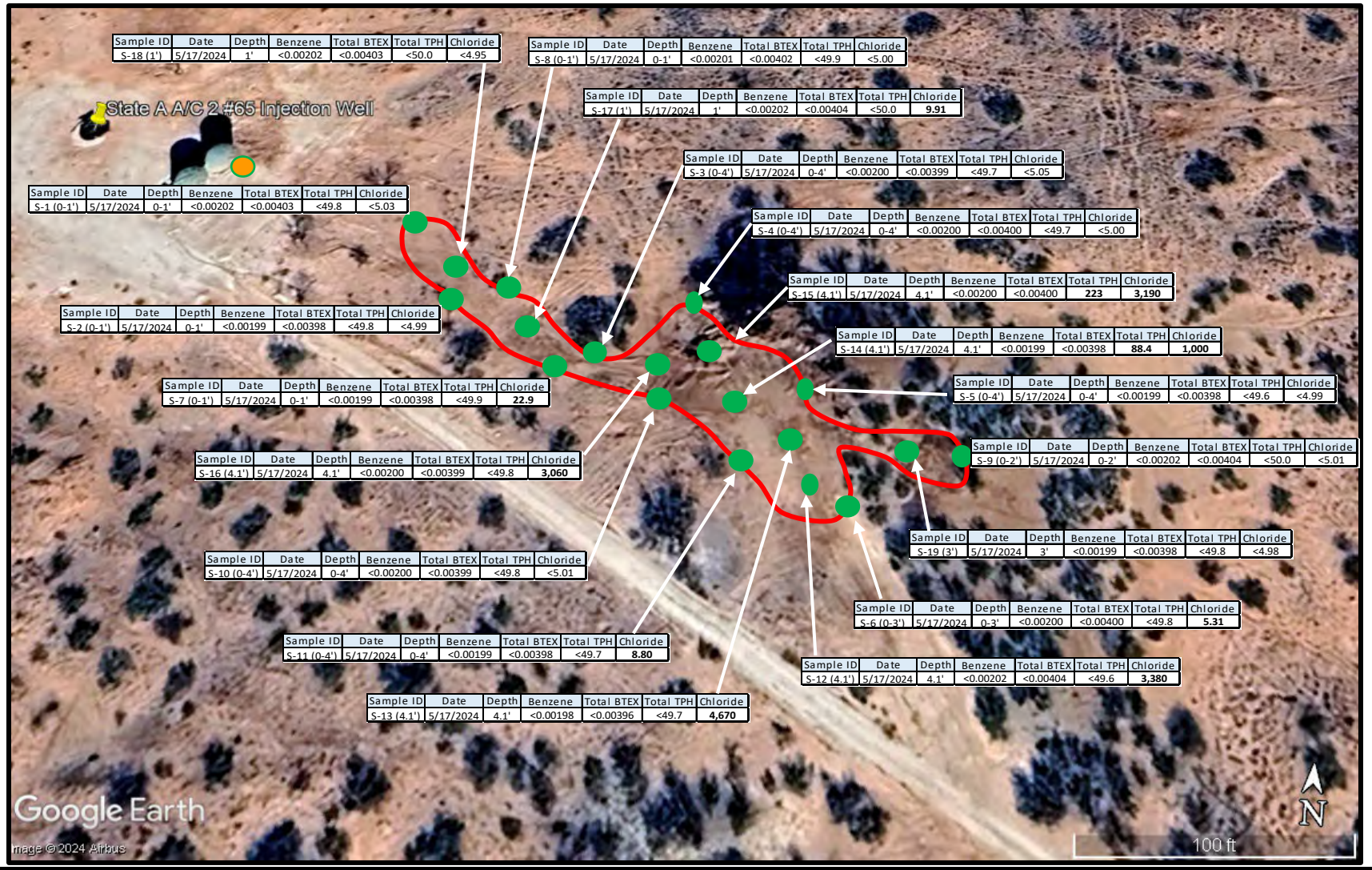

LEGEND:

- Soil Sample Location With Chloride Concentration (mg/kg).
- Excavation Boundary
- Release Point

Base Map From Google Earth Pro

Figure 2

Soil Sample Location Map

FAE II Operating, LLC

State A A/C 2 #065 Injection Well

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: July 8, 2024

GPS: 32.409592° -103.278313°

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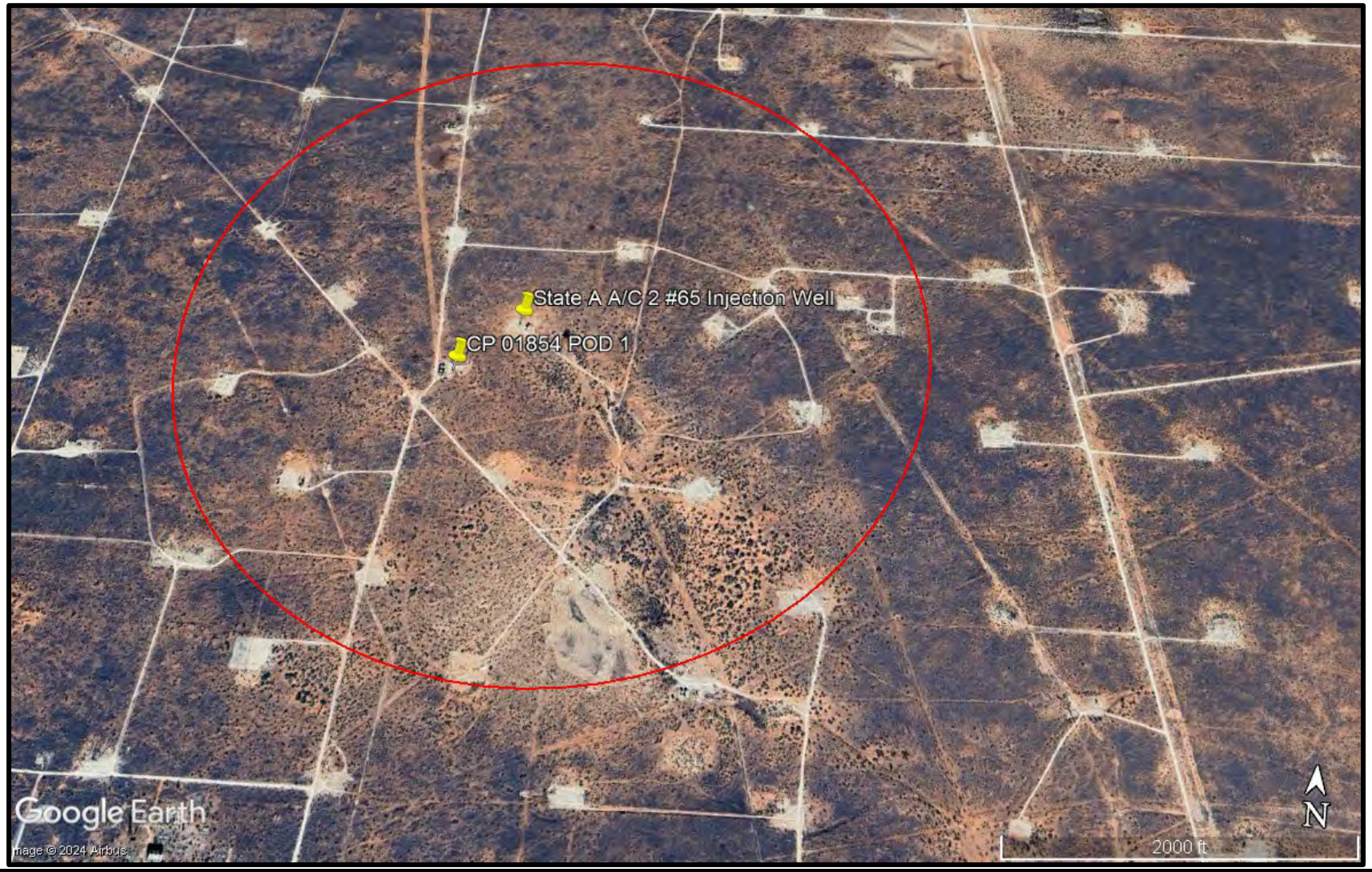
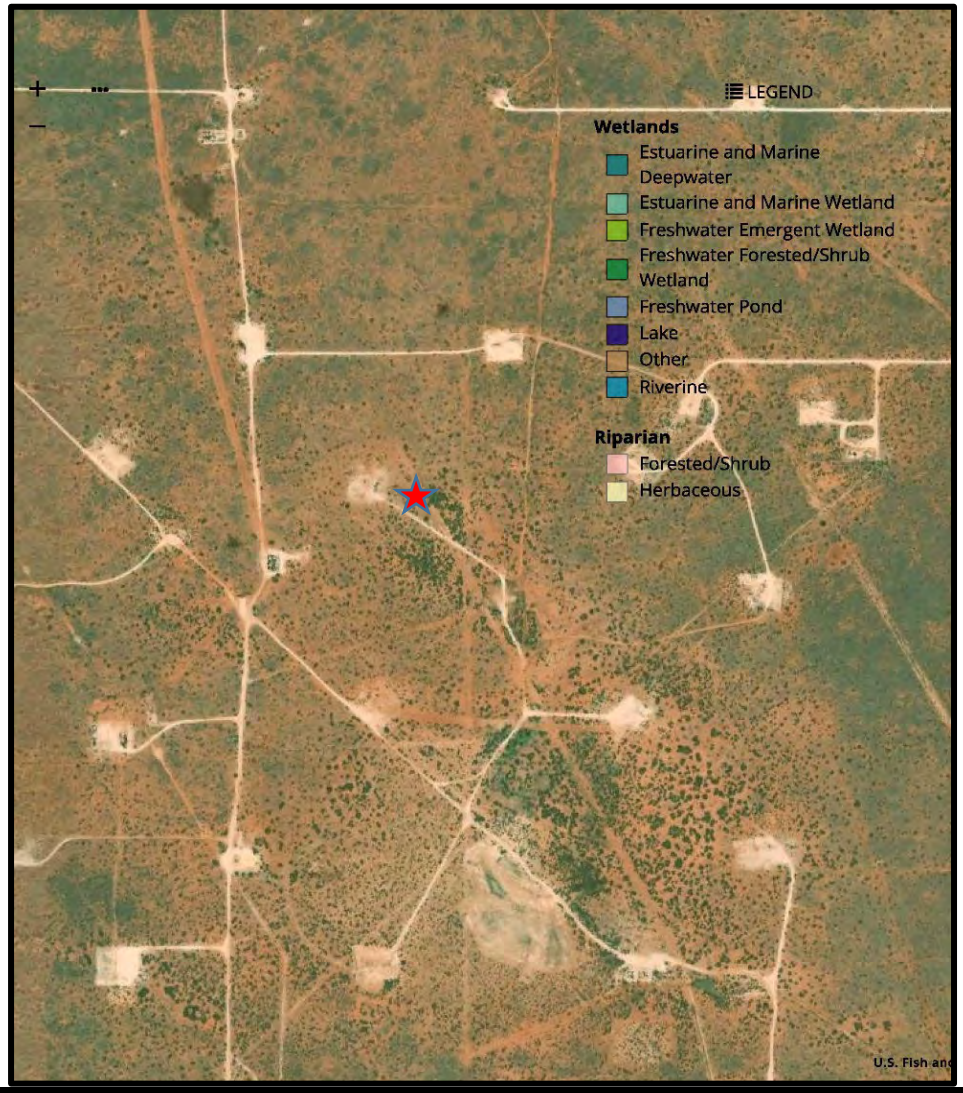
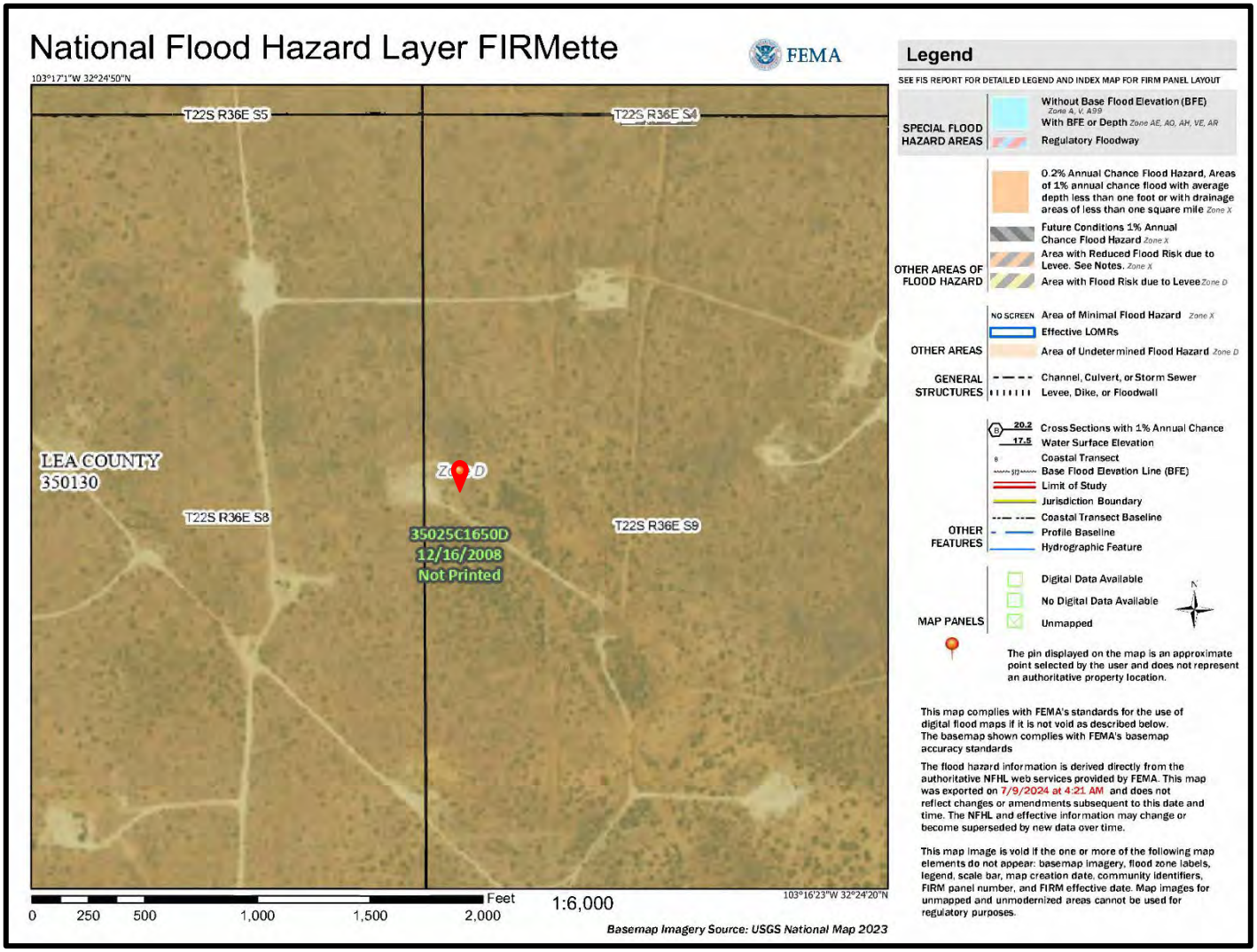


LEGEND: Site and Water Well Locations Base Map From Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** FAE II Operating, LLC State A A/C 2 #65 Injection Well Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: July 8, 2024 GPS: 32.409592° -103.278313°



LEGEND: Site Location Base Map From US Fish & Wildlife Service	**Figure 4** **National Wetlands Inventory Map** FAE II Operating, LLC State A A/C 2 #65 Injection Well Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: July 8, 2024 GPS: 32.409592° -103.278313°



LEGEND:

Site Location

Base Map From FEMA

Figure 5

FEMA Floodplain Map

FAE II Operating, LLC

State A A/C 2 #65 Injection Well

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: July 8, 2024

GPS: 32.409592° -103.278313°

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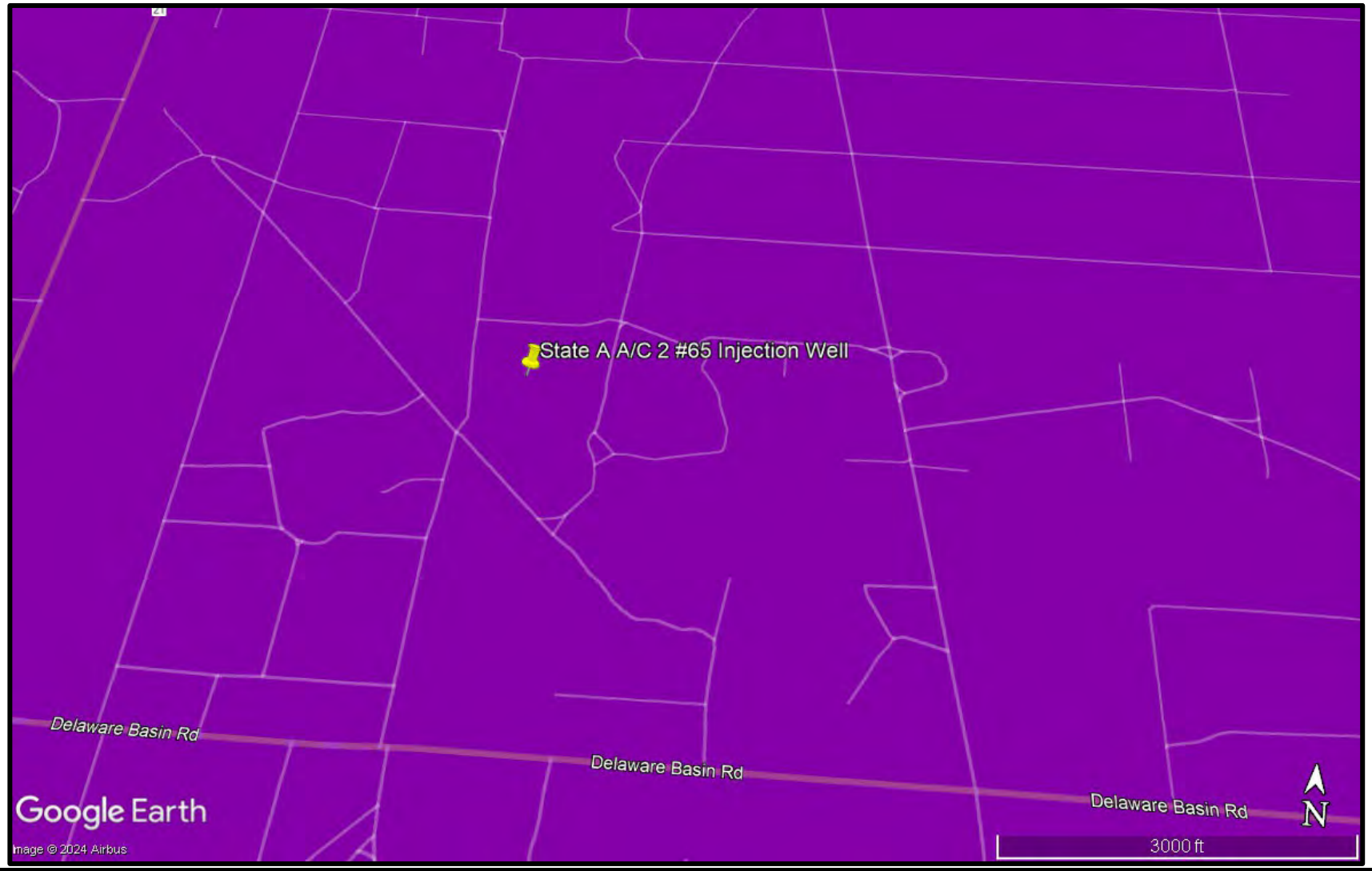


LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map From Google Earth Pro and BLM	**Figure 6** **Karst Potential Map** FAE II Operating, LLC State A A/C 2 #65 Injection Well Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: July 8, 2024 GPS: 32.409592° -103.278313°

Grain Environmental

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

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NAPP2327749668
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party FAE II Operating, LLC	OGRID 371416
Contact Name Alex Bolanos	Contact Telephone (832) 689-3788
Contact email alex@faenergyus.com	Incident # *(assigned by OCD)* nAPP2327749668
Contact mailing address	

Location of Release Source

Latitude 32.409592 Longitude -103.278887
(NAD 83 in decimal degrees to 5 decimal places)

Site Name STATE A A/C 2 #065 Injection Well	Site Type Well
Date Release Discovered 10/02/23	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
E	9	22S	36E	LEA

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (*Name:* _____)

Nature and Volume of Release

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

[ ] Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
[X] Produced Water	Volume Released (bbls) 130	Volume Recovered (bbls) 100
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	[x] Yes [ ] No
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A fiberglass line broke.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2327749668
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 barrels of produced water.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes, James Martinez called/emailed Mike Bradsher on 10/2/2023.

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Alex Bolanos
Title: Reg/Prod Analyst
Signature: Alex Bolanos
Date: 10/1/23
email: alex@faenergyus.com
Telephone: (832)689-3788

OCD Only

Received by: Shelly Wells
Date: 10/4/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 272558
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/4/2023

Incident ID	nAPP2327749668
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327749668
District RP	
Facility ID	
Application ID	

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

Printed Name: Cindy Crain Title: Agent for FAE II Operating, LLC

Signature: Cindy Crain Date: 7/9/24

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327749668
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Cindy Crain Title: Agent for FAE II Operating, LLC

Signature: Cindy Crain Date: 7/9/24

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

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327749668
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Cindy Crain Title: Agent for FAE II Operating, LLC

Signature: Cindy Crain Date: 7/9/24

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B: Point of Diversion Summary

New Mexico Office of the State Engineer
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 Number**	**Q64**	**Q16**	**Q4**	**Sec**	**Tws**	**Rng**	**X**	**Y**
20CF4	CP 01854 POD1	2	4	2	08	22S	36E	661852	3587145

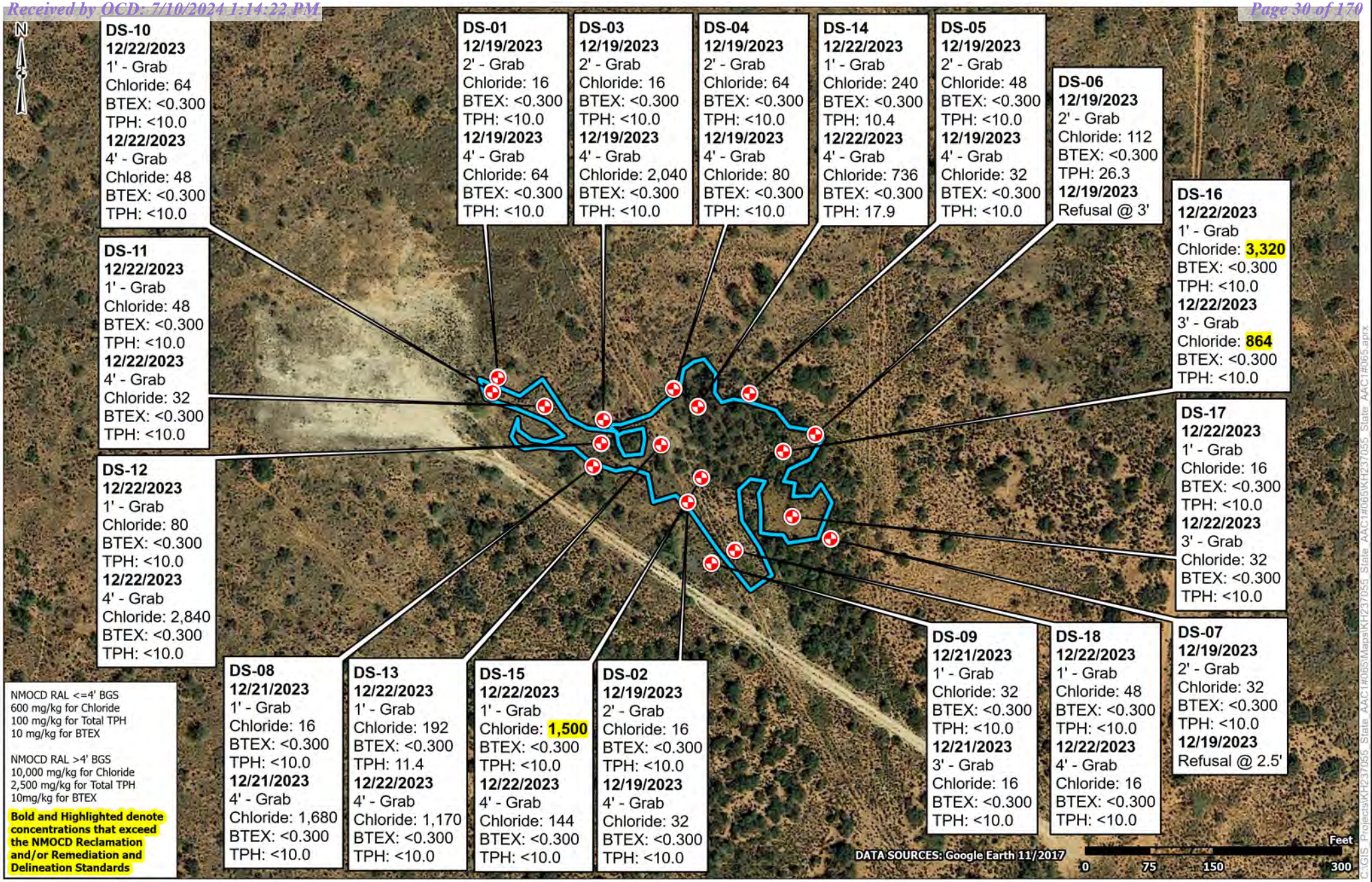
Driller License:	1611	**Driller Company:**	GOERTZEN DRILLING		
Driller Name:	CHARLEY GOERTZEN				
Drill Start Date:	10/20/2020	**Drill Finish Date:**	10/21/2020	**Plug Date:**	
Log File Date:	12/28/2020	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.00	**Depth Well:**	250 feet	**Depth Water:**	190 feet

Water Bearing Stratifications:	**Top**	**Bottom**	**Description**
	175	196	Sandstone/Gravel/Conglomerate
	196	210	Sandstone/Gravel/Conglomerate
	210	224	Sandstone/Gravel/Conglomerate
	224	250	Sandstone/Gravel/Conglomerate

Casing Perforations:	**Top**	**Bottom**
	0	250

Grain Environmental

Appendix C: Terracon Delineation Sample Map



Inferred Release

Delineation Sample

Project No.:	KH237055
Date:	Jan 16 2024
Drawn By:	JWL
Reviewed By:	TLC

Terracon

4526 W Pierce St
Carlsbad, NM

PH. 806-300-0140 terracon.com

Delineation Sample Map

State A A-C 1 #065
Forty Acres Energy LLC
32.295387, -103.241966
Lea County, New Mexico

Exhibit

3

Grain Environmental

Appendix D: Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/23/2024 4:55:25 PM

JOB DESCRIPTION

State A A/C 1 # 65
Lea Co., NM

JOB NUMBER

880-43626-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
5/23/2024 4:55:25 PM

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

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Laboratory Job ID: 880-43626-1
SDG: Lea Co., NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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 A A/C 1 # 65

Job ID: 880-43626-1

Job ID: 880-43626-1 Eurofins Midland

Job Narrative
880-43626-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the 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 5/20/2024 8:41 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions
The following samples received and analyzed from an unpreserved bulk soil jar: S-1 (0-1') (880-43626-1), S-2 (0-1') (880-43626-2), S-3 (0-4') (880-43626-3), S-4 (0-4') (880-43626-4), S-5 (0-4') (880-43626-5), S-6 (0-3') (880-43626-6), S-7 (0-1') (880-43626-7), S-8 (0-1') (880-43626-8), S-9 (0-2') (880-43626-9), S-10 (0-4') (880-43626-10), S-11 (0-4') (880-43626-11), S-12 (4.1') (880-43626-12), S-13 (4.1') (880-43626-13), S-14 (4.1') (880-43626-14), S-15 (4.1') (880-43626-15), S-16 (4.1') (880-43626-16), S-17 (1') (880-43626-17), S-18 (1') (880-43626-18) and S-19 (3') (880-43626-19).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-81147 recovered above the upper control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-81233 and analytical batch 880-81247 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-81233/2-A), (880-43694-A-1-C MS) and (880-43694-A-1-D MSD). 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (880-43626-A-18-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported. <Affected Sample was the MS. LCS is acceptable for batch>

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 A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-1
Matrix: Solid
Date Collected: 05/17/24 10:15
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/24 15:25	05/21/24 17:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/24 15:25	05/21/24 17:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/24 15:25	05/21/24 17:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/24 15:25	05/21/24 17:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/24 15:25	05/21/24 17:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/24 15:25	05/21/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/20/24 15:25*	*05/21/24 17:35*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/24 15:25*	*05/21/24 17:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/21/24 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/24 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:08*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			05/20/24 16:50	1

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-43626-2
Matrix: Solid
Date Collected: 05/17/24 10:20
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 17:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 17:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/24 15:25	05/21/24 17:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/24 15:25	05/21/24 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*05/20/24 15:25*	*05/21/24 17:56*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-43626-2
Matrix: Solid
Date Collected: 05/17/24 10:20
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/24 15:25*	*05/21/24 17:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/21/24 17:56	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			05/21/24 14:25	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	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:25*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/20/24 17:09	1

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

Lab Sample ID: 880-43626-3
Matrix: Solid
Date Collected: 05/17/24 10:25
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

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		05/20/24 15:25	05/21/24 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/24 15:25	05/21/24 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/24 15:25	05/21/24 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:16*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:16*	*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			05/21/24 18:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/21/24 14:41	1

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-3
Matrix: Solid
Date Collected: 05/17/24 10:25
Date Received: 05/20/24 08:41
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	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:41*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			05/20/24 17:15	1

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

Lab Sample ID: 880-43626-4
Matrix: Solid
Date Collected: 05/17/24 10:30
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

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		05/20/24 15:25	05/21/24 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/24 15:25	05/21/24 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 18:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/24 15:25	05/21/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:37*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/21/24 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/21/24 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:58*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/24 09:10*	*05/21/24 14:58*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-4
Matrix: Solid
Date Collected: 05/17/24 10:30
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/24 17:21	1

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

Lab Sample ID: 880-43626-5
Matrix: Solid
Date Collected: 05/17/24 10:35
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 18:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 18:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 18:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/24 15:25	05/21/24 18:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/24 15:25	05/21/24 18:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/24 15:25	05/21/24 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:57*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/20/24 15:25*	*05/21/24 18:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/21/24 18:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/21/24 15:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 15:16	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 15:16	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:16*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/20/24 17:28	1

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-6 (0-3')

Lab Sample ID: 880-43626-6
Matrix: Solid
Date Collected: 05/17/24 10:40
Date Received: 05/20/24 08:41
Sample Depth: 0-3'

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		05/21/24 16:36	05/22/24 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 17:06	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/21/24 16:36	05/22/24 17:06	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400		mg/Kg		05/21/24 16:36	05/22/24 17:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 17:06	1
Xylenes, Total	<0.00400	U *+	0.00400		mg/Kg		05/21/24 16:36	05/22/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/21/24 16:36*	*05/22/24 17:06*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/21/24 16:36*	*05/22/24 17:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/22/24 17:06	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			05/21/24 15:33	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		05/20/24 09:10	05/21/24 15:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 15:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:33*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.31**		5.02		mg/Kg			05/20/24 17:34	1

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-43626-7
Matrix: Solid
Date Collected: 05/17/24 10:45
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/21/24 16:30	05/22/24 06:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/21/24 16:30	05/22/24 06:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/21/24 16:30	05/22/24 06:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/21/24 16:30	05/22/24 06:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/21/24 16:30	05/22/24 06:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/21/24 16:30	05/22/24 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*05/21/24 16:30*	*05/22/24 06:15*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-43626-7
Matrix: Solid
Date Collected: 05/17/24 10:45
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/21/24 16:30*	*05/22/24 06:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/22/24 06:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/21/24 15:50	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	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 15:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 15:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 15:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:50*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/24 09:10*	*05/21/24 15:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.9**		4.97		mg/Kg			05/20/24 17:40	1

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-43626-8
Matrix: Solid
Date Collected: 05/17/24 10:50
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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		05/20/24 10:21	05/21/24 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/24 10:21	05/21/24 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/24 10:21	05/21/24 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/24 10:21	05/21/24 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/24 10:21	05/21/24 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/24 10:21	05/21/24 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/20/24 10:21*	*05/21/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/20/24 10:21*	*05/21/24 11:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/21/24 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/21/24 16:23	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-43626-8
Matrix: Solid
Date Collected: 05/17/24 10:50
Date Received: 05/20/24 08:41
Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 16:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 16:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:23*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/24 18:37	1

Client Sample ID: S-9 (0-2')

Lab Sample ID: 880-43626-9
Matrix: Solid
Date Collected: 05/17/24 10:55
Date Received: 05/20/24 08:41
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 12:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 12:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 12:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 12:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 12:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/21/24 12:16	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	U	50.0		mg/Kg			05/21/24 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:40*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:40*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-9 (0-2')

Lab Sample ID: 880-43626-9
Matrix: Solid
Date Collected: 05/17/24 10:55
Date Received: 05/20/24 08:41
Sample Depth: 0-2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			05/20/24 18:56	1

Client Sample ID: S-10 (0-4')

Lab Sample ID: 880-43626-10
Matrix: Solid
Date Collected: 05/17/24 11:00
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

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		05/20/24 10:21	05/21/24 12:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 12:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 12:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/24 10:21	05/21/24 12:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 12:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/24 10:21	05/21/24 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:37*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:37*	*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			05/21/24 12:37	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			05/21/24 16:57	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	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 16:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 16:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:57*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/20/24 09:10*	*05/21/24 16:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			05/20/24 19:02	1

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-43626-11
Matrix: Solid
Date Collected: 05/17/24 11:05
Date Received: 05/20/24 08:41
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 12:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 12:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 12:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 12:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:58*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/20/24 10:21*	*05/21/24 12:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/21/24 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/21/24 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:14	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:14*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.80**		5.01		mg/Kg			05/20/24 19:08	1

Client Sample ID: S-12 (4.1')

Lab Sample ID: 880-43626-12
Matrix: Solid
Date Collected: 05/17/24 11:10
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 13:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 13:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 13:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 13:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 13:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:18*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-12 (4.1')

Lab Sample ID: 880-43626-12
Matrix: Solid
Date Collected: 05/17/24 11:10
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/21/24 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/21/24 17:31	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	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 17:31	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 17:31	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/20/24 09:10	05/21/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:31*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3380**		49.7		mg/Kg			05/20/24 19:15	10

Client Sample ID: S-13 (4.1')

Lab Sample ID: 880-43626-13
Matrix: Solid
Date Collected: 05/17/24 11:15
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/24 10:21	05/21/24 13:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/24 10:21	05/21/24 13:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/24 10:21	05/21/24 13:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/20/24 10:21	05/21/24 13:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/24 10:21	05/21/24 13:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/20/24 10:21	05/21/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:39*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/21/24 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/21/24 17:47	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-13 (4.1')

Lab Sample ID: 880-43626-13
Matrix: Solid
Date Collected: 05/17/24 11:15
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/24 09:10	05/21/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:47*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/24 09:10*	*05/21/24 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4670**		49.9		mg/Kg			05/20/24 19:34	10

Client Sample ID: S-14 (4.1')

Lab Sample ID: 880-43626-14
Matrix: Solid
Date Collected: 05/17/24 11:20
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 13:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 13:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 13:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 13:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 13:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:59*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/20/24 10:21*	*05/21/24 13:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/21/24 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**88.4**		49.8		mg/Kg			05/21/24 18:03	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	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 18:03	1
Diesel Range Organics (Over C10-C28)	**88.4**		49.8		mg/Kg		05/20/24 09:10	05/21/24 18:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:03*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:03*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-14 (4.1')

Lab Sample ID: 880-43626-14
Matrix: Solid
Date Collected: 05/17/24 11:20
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1000**		5.02		mg/Kg			05/20/24 19:40	1

Client Sample ID: S-15 (4.1')

Lab Sample ID: 880-43626-15
Matrix: Solid
Date Collected: 05/17/24 11:25
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/24 10:21	05/21/24 14:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/24 10:21	05/21/24 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/20/24 10:21*	*05/21/24 14:20*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/20/24 10:21*	*05/21/24 14:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/21/24 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**223**		49.9		mg/Kg			05/21/24 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 18:19	1
Diesel Range Organics (Over C10-C28)	**223**		49.9		mg/Kg		05/20/24 09:10	05/21/24 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/24 09:10	05/21/24 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:19*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3190**		24.9		mg/Kg			05/20/24 19:46	5

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-16 (4.1')

Lab Sample ID: 880-43626-16
Matrix: Solid
Date Collected: 05/17/24 11:30
Date Received: 05/20/24 08:41
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/24 10:21	05/21/24 14:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 14:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/24 10:21	05/21/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/20/24 10:21*	*05/21/24 14:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/20/24 10:21*	*05/21/24 14:41*	*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			05/21/24 14:41	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			05/21/24 18:34	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	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 18:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 18:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:10	05/21/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:34*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3060**		25.2		mg/Kg			05/20/24 19:52	5

Client Sample ID: S-17 (1')

Lab Sample ID: 880-43626-17
Matrix: Solid
Date Collected: 05/17/24 11:35
Date Received: 05/20/24 08:41
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 15:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 15:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 15:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 15:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 15:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/24 10:21	05/21/24 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/20/24 10:21*	*05/21/24 15:01*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-17 (1')

Lab Sample ID: 880-43626-17
Matrix: Solid
Date Collected: 05/17/24 11:35
Date Received: 05/20/24 08:41
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/20/24 10:21*	*05/21/24 15:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/21/24 15:01	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	U	50.0		mg/Kg			05/21/24 18:50	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	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:50*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/24 09:10*	*05/21/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.91**		4.98		mg/Kg			05/20/24 19:59	1

Client Sample ID: S-18 (1')

Lab Sample ID: 880-43626-18
Matrix: Solid
Date Collected: 05/17/24 11:40
Date Received: 05/20/24 08:41
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 16:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 16:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 16:49	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/24 10:21	05/21/24 16:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/24 10:21	05/21/24 16:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/24 10:21	05/21/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/20/24 10:21*	*05/21/24 16:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/20/24 10:21*	*05/21/24 16:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/21/24 16:49	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	U	50.0		mg/Kg			05/22/24 12:34	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-18 (1')

Lab Sample ID: 880-43626-18
Matrix: Solid
Date Collected: 05/17/24 11:40
Date Received: 05/20/24 08:41
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/24 09:48	05/22/24 12:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/24 09:48	05/22/24 12:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/24 09:48	05/22/24 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/24 09:48*	*05/22/24 12:34*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/24 09:48*	*05/22/24 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			05/20/24 20:05	1

Client Sample ID: S-19 (3')

Lab Sample ID: 880-43626-19
Matrix: Solid
Date Collected: 05/17/24 11:45
Date Received: 05/20/24 08:41
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/24 10:21	05/21/24 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/24 10:21	05/21/24 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/20/24 10:21*	*05/21/24 17:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/20/24 10:21*	*05/21/24 17:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/21/24 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/24 13:29	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	<49.8	U	49.8		mg/Kg		05/20/24 09:48	05/22/24 13:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/24 09:48	05/22/24 13:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/24 09:48	05/22/24 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/20/24 09:48*	*05/22/24 13:29*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/20/24 09:48*	*05/22/24 13:29*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-19 (3')
Date Collected: 05/17/24 11:45
Date Received: 05/20/24 08:41
Sample Depth: 3'

Lab Sample ID: 880-43626-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			05/20/24 20:24	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
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)
880-43626-1	S-1 (0-1')	120	91
880-43626-2	S-2 (0-1')	119	91
880-43626-3	S-3 (0-4')	119	91
880-43626-4	S-4 (0-4')	122	92
880-43626-5	S-5 (0-4')	119	92
880-43626-6	S-6 (0-3')	118	90
880-43626-7	S-7 (0-1')	123	92
880-43626-8	S-8 (0-1')	110	94
880-43626-8 MS	S-8 (0-1')	101	97
880-43626-8 MSD	S-8 (0-1')	100	97
880-43626-9	S-9 (0-2')	105	92
880-43626-10	S-10 (0-4')	109	95
880-43626-11	S-11 (0-4')	108	93
880-43626-12	S-12 (4.1')	108	93
880-43626-13	S-13 (4.1')	111	94
880-43626-14	S-14 (4.1')	108	94
880-43626-15	S-15 (4.1')	108	93
880-43626-16	S-16 (4.1')	107	93
880-43626-17	S-17 (1')	108	93
880-43626-18	S-18 (1')	109	94
880-43626-19	S-19 (3')	109	94
LCS 880-81082/1-A	Lab Control Sample	100	97
LCS 880-81124/1-A	Lab Control Sample	118	99
LCS 880-81211/1-A	Lab Control Sample	118	91
LCS 880-81233/1-A	Lab Control Sample	129	85
LCSD 880-81082/2-A	Lab Control Sample Dup	99	97
LCSD 880-81124/2-A	Lab Control Sample Dup	117	97
LCSD 880-81211/2-A	Lab Control Sample Dup	119	99
LCSD 880-81233/2-A	Lab Control Sample Dup	140 S1+	90
MB 880-81082/5-A	Method Blank	104	91
MB 880-81124/5-A	Method Blank	116	88
MB 880-81211/5-A	Method Blank	119	89
MB 880-81233/5-A	Method Blank	213 S1+	119

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)
880-43626-1	S-1 (0-1')	86	89
880-43626-2	S-2 (0-1')	89	92
880-43626-3	S-3 (0-4')	93	95
880-43626-4	S-4 (0-4')	90	92
880-43626-5	S-5 (0-4')	83	85
880-43626-6	S-6 (0-3')	97	100

Surrogate Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-43626-7	S-7 (0-1')	94	96
880-43626-8	S-8 (0-1')	97	100
880-43626-9	S-9 (0-2')	95	98
880-43626-10	S-10 (0-4')	104	107
880-43626-11	S-11 (0-4')	93	95
880-43626-12	S-12 (4.1')	92	97
880-43626-13	S-13 (4.1')	90	91
880-43626-14	S-14 (4.1')	96	94
880-43626-15	S-15 (4.1')	101	99
880-43626-16	S-16 (4.1')	88	89
880-43626-17	S-17 (1')	97	99
880-43626-18	S-18 (1')	98	98
880-43626-18 MS	S-18 (1')	137 S1+	120
880-43626-18 MSD	S-18 (1')	115	119
880-43626-19	S-19 (3')	122	124
LCS 880-81053/2-A	Lab Control Sample	105	90
LCS 880-81062/2-A	Lab Control Sample	100	104
LCSD 880-81053/3-A	Lab Control Sample Dup	106	89
LCSD 880-81062/3-A	Lab Control Sample Dup	95	99
MB 880-81053/1-A	Method Blank	92	92
MB 880-81062/1-A	Method Blank	115	116

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-81082/5-A
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/24 10:21	05/21/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 10:21	05/21/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/24 10:21	05/21/24 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/24 10:21*	*05/21/24 11:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/24 10:21*	*05/21/24 11:34*	*1*

Lab Sample ID: LCS 880-81082/1-A
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1021		mg/Kg		102	70 - 130
Toluene	0.100	0.09429		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-81082/2-A
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	0	35
Toluene	0.100	0.09430		mg/Kg		94	70 - 130	0	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	0	35
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	0	35

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

Lab Sample ID: 880-43626-8 MS
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: S-8 (0-1')
Prep Type: Total/NA
Prep Batch: 81082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09717		mg/Kg		97	70 - 130
Toluene	<0.00201	U	0.100	0.08929		mg/Kg		89	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-8 MS
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: S-8 (0-1')
Prep Type: Total/NA
Prep Batch: 81082

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09519		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1905		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U	0.100	0.09563		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-43626-8 MSD
Matrix: Solid
Analysis Batch: 81145

Client Sample ID: S-8 (0-1')
Prep Type: Total/NA
Prep Batch: 81082

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09695		mg/Kg		97	70 - 130	0	35
Toluene	<0.00201	U	0.100	0.08782		mg/Kg		88	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.09383		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1860		mg/Kg		93	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09501		mg/Kg		95	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-81124/5-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/24 15:25	05/21/24 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/24 15:25	05/21/24 11:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/24 15:25	05/21/24 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/20/24 15:25*	*05/21/24 11:38*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/20/24 15:25*	*05/21/24 11:38*	*1*

Lab Sample ID: LCS 880-81124/1-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1185		mg/Kg		119	70 - 130
Toluene	0.100	0.1136		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2256		mg/Kg		113	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-81124/1-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1168		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-81124/2-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81124

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1002		mg/Kg		100	70 - 130	17	35
Toluene			0.100	0.09628		mg/Kg		96	70 - 130	16	35
Ethylbenzene			0.100	0.09375		mg/Kg		94	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.1920		mg/Kg		96	70 - 130	16	35
o-Xylene			0.100	0.09960		mg/Kg		100	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 880-81211/5-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/21/24 14:42	05/21/24 22:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/21/24 14:42	05/21/24 22:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/21/24 14:42	05/21/24 22:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/21/24 14:42	05/21/24 22:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/21/24 14:42	05/21/24 22:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/21/24 14:42	05/21/24 22:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*05/21/24 14:42*	*05/21/24 22:52*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/21/24 14:42*	*05/21/24 22:52*	*1*

Lab Sample ID: LCS 880-81211/1-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81211

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1114		mg/Kg		111	70 - 130		
Toluene			0.100	0.1115		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1061		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2234		mg/Kg		112	70 - 130		
o-Xylene			0.100	0.1155		mg/Kg		115	70 - 130		

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-81211/1-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81211

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-81211/2-A
Matrix: Solid
Analysis Batch: 81147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81211

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1179		mg/Kg		118	70 - 130	6	35
Toluene			0.100	0.1147		mg/Kg		115	70 - 130	3	35
Ethylbenzene			0.100	0.1125		mg/Kg		113	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.2328		mg/Kg		116	70 - 130	4	35
o-Xylene			0.100	0.1201		mg/Kg		120	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-81233/5-A
Matrix: Solid
Analysis Batch: 81247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/21/24 16:36	05/22/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/21/24 16:36	05/22/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/21/24 16:36	05/22/24 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130	05/21/24 16:36	05/22/24 11:33	1
1,4-Difluorobenzene (Surr)	119		70 - 130	05/21/24 16:36	05/22/24 11:33	1

Lab Sample ID: LCS 880-81233/1-A
Matrix: Solid
Analysis Batch: 81247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81233

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09959		mg/Kg		100	70 - 130
Toluene			0.100	0.09643		mg/Kg		96	70 - 130
Ethylbenzene			0.100	0.1128		mg/Kg		113	70 - 130
m-Xylene & p-Xylene			0.200	0.2195		mg/Kg		110	70 - 130
o-Xylene			0.100	0.09690		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-81233/1-A
Matrix: Solid
Analysis Batch: 81247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81233

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-81233/2-A
Matrix: Solid
Analysis Batch: 81247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81233

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1164		mg/Kg		116	70 - 130	16	35
Toluene			0.100	0.1085		mg/Kg		108	70 - 130	12	35
Ethylbenzene			0.100	0.1433	*+	mg/Kg		143	70 - 130	24	35
m-Xylene & p-Xylene			0.200	0.2836	*+	mg/Kg		142	70 - 130	25	35
o-Xylene			0.100	0.1246		mg/Kg		125	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-81053/1-A
Matrix: Solid
Analysis Batch: 81099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81053

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		05/20/24 09:10	05/21/24 10:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 10:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/24 09:10	05/21/24 10:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	05/20/24 09:10	05/21/24 10:15	1
o-Terphenyl	92		70 - 130	05/20/24 09:10	05/21/24 10:15	1

Lab Sample ID: LCS 880-81053/2-A
Matrix: Solid
Analysis Batch: 81099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1125		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	942.5		mg/Kg		94	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-81053/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81099 — **Prep Batch: 81053**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1105		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	970.7		mg/Kg		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*89*		*70 - 130*

Lab Sample ID: MB 880-81062/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81309 — **Prep Batch: 81062**

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		05/20/24 09:48	05/22/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/24 09:48	05/22/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/24 09:48	05/22/24 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/20/24 09:48*	*05/22/24 10:10*	*1*
o-Terphenyl	*116*		*70 - 130*	*05/20/24 09:48*	*05/22/24 10:10*	*1*

Lab Sample ID: LCS 880-81062/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81309 — **Prep Batch: 81062**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1089		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)			1000	963.7		mg/Kg		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Lab Sample ID: LCSD 880-81062/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 81309 — **Prep Batch: 81062**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1024		mg/Kg		102	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	915.4		mg/Kg		92	70 - 130	5	20

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-81062/3-A
Matrix: Solid
Analysis Batch: 81309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81062

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

Lab Sample ID: 880-43626-18 MS
Matrix: Solid
Analysis Batch: 81309

Client Sample ID: S-18 (1')
Prep Type: Total/NA
Prep Batch: 81062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	942.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	812.2		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-43626-18 MSD
Matrix: Solid
Analysis Batch: 81309

Client Sample ID: S-18 (1')
Prep Type: Total/NA
Prep Batch: 81062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	952.4		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	869.5		mg/Kg		87	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	119		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-81084/1-A
Matrix: Solid
Analysis Batch: 81101

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/24 14:37	1

Lab Sample ID: LCS 880-81084/2-A
Matrix: Solid
Analysis Batch: 81101

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.6		mg/Kg		97	90 - 110

QC Sample Results

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-81084/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81101

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.0		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-81085/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/24 18:18	1

Lab Sample ID: LCS 880-81085/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-81085/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	240.4		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-43626-8 MS — **Client Sample ID: S-8 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.00	U	250	250.2		mg/Kg		98	90 - 110		

Lab Sample ID: 880-43626-8 MSD — **Client Sample ID: S-8 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00	U	250	249.1		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-43626-18 MS — **Client Sample ID: S-18 (1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<4.95	U	248	244.1		mg/Kg		97	90 - 110		

Lab Sample ID: 880-43626-18 MSD — **Client Sample ID: S-18 (1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 81102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.95	U	248	244.9		mg/Kg		97	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 81082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-8	S-8 (0-1')	Total/NA	Solid	5035	
880-43626-9	S-9 (0-2')	Total/NA	Solid	5035	
880-43626-10	S-10 (0-4')	Total/NA	Solid	5035	
880-43626-11	S-11 (0-4')	Total/NA	Solid	5035	
880-43626-12	S-12 (4.1')	Total/NA	Solid	5035	
880-43626-13	S-13 (4.1')	Total/NA	Solid	5035	
880-43626-14	S-14 (4.1')	Total/NA	Solid	5035	
880-43626-15	S-15 (4.1')	Total/NA	Solid	5035	
880-43626-16	S-16 (4.1')	Total/NA	Solid	5035	
880-43626-17	S-17 (1')	Total/NA	Solid	5035	
880-43626-18	S-18 (1')	Total/NA	Solid	5035	
880-43626-19	S-19 (3')	Total/NA	Solid	5035	
MB 880-81082/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-81082/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-81082/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-43626-8 MS	S-8 (0-1')	Total/NA	Solid	5035	
880-43626-8 MSD	S-8 (0-1')	Total/NA	Solid	5035	

Prep Batch: 81124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	5035	
880-43626-2	S-2 (0-1')	Total/NA	Solid	5035	
880-43626-3	S-3 (0-4')	Total/NA	Solid	5035	
880-43626-4	S-4 (0-4')	Total/NA	Solid	5035	
880-43626-5	S-5 (0-4')	Total/NA	Solid	5035	
MB 880-81124/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-81124/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-81124/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 81145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-8	S-8 (0-1')	Total/NA	Solid	8021B	81082
880-43626-9	S-9 (0-2')	Total/NA	Solid	8021B	81082
880-43626-10	S-10 (0-4')	Total/NA	Solid	8021B	81082
880-43626-11	S-11 (0-4')	Total/NA	Solid	8021B	81082
880-43626-12	S-12 (4.1')	Total/NA	Solid	8021B	81082
880-43626-13	S-13 (4.1')	Total/NA	Solid	8021B	81082
880-43626-14	S-14 (4.1')	Total/NA	Solid	8021B	81082
880-43626-15	S-15 (4.1')	Total/NA	Solid	8021B	81082
880-43626-16	S-16 (4.1')	Total/NA	Solid	8021B	81082
880-43626-17	S-17 (1')	Total/NA	Solid	8021B	81082
880-43626-18	S-18 (1')	Total/NA	Solid	8021B	81082
880-43626-19	S-19 (3')	Total/NA	Solid	8021B	81082
MB 880-81082/5-A	Method Blank	Total/NA	Solid	8021B	81082
LCS 880-81082/1-A	Lab Control Sample	Total/NA	Solid	8021B	81082
LCSD 880-81082/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	81082
880-43626-8 MS	S-8 (0-1')	Total/NA	Solid	8021B	81082
880-43626-8 MSD	S-8 (0-1')	Total/NA	Solid	8021B	81082

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 81147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	8021B	81124
880-43626-2	S-2 (0-1')	Total/NA	Solid	8021B	81124
880-43626-3	S-3 (0-4')	Total/NA	Solid	8021B	81124
880-43626-4	S-4 (0-4')	Total/NA	Solid	8021B	81124
880-43626-5	S-5 (0-4')	Total/NA	Solid	8021B	81124
880-43626-7	S-7 (0-1')	Total/NA	Solid	8021B	81211
MB 880-81124/5-A	Method Blank	Total/NA	Solid	8021B	81124
MB 880-81211/5-A	Method Blank	Total/NA	Solid	8021B	81211
LCS 880-81124/1-A	Lab Control Sample	Total/NA	Solid	8021B	81124
LCS 880-81211/1-A	Lab Control Sample	Total/NA	Solid	8021B	81211
LCSD 880-81124/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	81124
LCSD 880-81211/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	81211

Prep Batch: 81211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-7	S-7 (0-1')	Total/NA	Solid	5035	
MB 880-81211/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-81211/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-81211/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 81233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-6	S-6 (0-3')	Total/NA	Solid	5035	
MB 880-81233/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-81233/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-81233/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 81247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-6	S-6 (0-3')	Total/NA	Solid	8021B	81233
MB 880-81233/5-A	Method Blank	Total/NA	Solid	8021B	81233
LCS 880-81233/1-A	Lab Control Sample	Total/NA	Solid	8021B	81233
LCSD 880-81233/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	81233

Analysis Batch: 81284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	Total BTEX	
880-43626-2	S-2 (0-1')	Total/NA	Solid	Total BTEX	
880-43626-3	S-3 (0-4')	Total/NA	Solid	Total BTEX	
880-43626-4	S-4 (0-4')	Total/NA	Solid	Total BTEX	
880-43626-5	S-5 (0-4')	Total/NA	Solid	Total BTEX	
880-43626-6	S-6 (0-3')	Total/NA	Solid	Total BTEX	
880-43626-7	S-7 (0-1')	Total/NA	Solid	Total BTEX	
880-43626-8	S-8 (0-1')	Total/NA	Solid	Total BTEX	
880-43626-9	S-9 (0-2')	Total/NA	Solid	Total BTEX	
880-43626-10	S-10 (0-4')	Total/NA	Solid	Total BTEX	
880-43626-11	S-11 (0-4')	Total/NA	Solid	Total BTEX	
880-43626-12	S-12 (4.1')	Total/NA	Solid	Total BTEX	
880-43626-13	S-13 (4.1')	Total/NA	Solid	Total BTEX	
880-43626-14	S-14 (4.1')	Total/NA	Solid	Total BTEX	
880-43626-15	S-15 (4.1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

GC VOA (Continued)

Analysis Batch: 81284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-16	S-16 (4.1')	Total/NA	Solid	Total BTEX	
880-43626-17	S-17 (1')	Total/NA	Solid	Total BTEX	
880-43626-18	S-18 (1')	Total/NA	Solid	Total BTEX	
880-43626-19	S-19 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 81053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-43626-2	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-43626-3	S-3 (0-4')	Total/NA	Solid	8015NM Prep	
880-43626-4	S-4 (0-4')	Total/NA	Solid	8015NM Prep	
880-43626-5	S-5 (0-4')	Total/NA	Solid	8015NM Prep	
880-43626-6	S-6 (0-3')	Total/NA	Solid	8015NM Prep	
880-43626-7	S-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-43626-8	S-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-43626-9	S-9 (0-2')	Total/NA	Solid	8015NM Prep	
880-43626-10	S-10 (0-4')	Total/NA	Solid	8015NM Prep	
880-43626-11	S-11 (0-4')	Total/NA	Solid	8015NM Prep	
880-43626-12	S-12 (4.1')	Total/NA	Solid	8015NM Prep	
880-43626-13	S-13 (4.1')	Total/NA	Solid	8015NM Prep	
880-43626-14	S-14 (4.1')	Total/NA	Solid	8015NM Prep	
880-43626-15	S-15 (4.1')	Total/NA	Solid	8015NM Prep	
880-43626-16	S-16 (4.1')	Total/NA	Solid	8015NM Prep	
880-43626-17	S-17 (1')	Total/NA	Solid	8015NM Prep	
MB 880-81053/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-81053/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-81053/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 81062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-18	S-18 (1')	Total/NA	Solid	8015NM Prep	
880-43626-19	S-19 (3')	Total/NA	Solid	8015NM Prep	
MB 880-81062/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-81062/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-81062/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-43626-18 MS	S-18 (1')	Total/NA	Solid	8015NM Prep	
880-43626-18 MSD	S-18 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 81099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	8015B NM	81053
880-43626-2	S-2 (0-1')	Total/NA	Solid	8015B NM	81053
880-43626-3	S-3 (0-4')	Total/NA	Solid	8015B NM	81053
880-43626-4	S-4 (0-4')	Total/NA	Solid	8015B NM	81053
880-43626-5	S-5 (0-4')	Total/NA	Solid	8015B NM	81053
880-43626-6	S-6 (0-3')	Total/NA	Solid	8015B NM	81053
880-43626-7	S-7 (0-1')	Total/NA	Solid	8015B NM	81053
880-43626-8	S-8 (0-1')	Total/NA	Solid	8015B NM	81053
880-43626-9	S-9 (0-2')	Total/NA	Solid	8015B NM	81053

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 81099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-10	S-10 (0-4')	Total/NA	Solid	8015B NM	81053
880-43626-11	S-11 (0-4')	Total/NA	Solid	8015B NM	81053
880-43626-12	S-12 (4.1')	Total/NA	Solid	8015B NM	81053
880-43626-13	S-13 (4.1')	Total/NA	Solid	8015B NM	81053
880-43626-14	S-14 (4.1')	Total/NA	Solid	8015B NM	81053
880-43626-15	S-15 (4.1')	Total/NA	Solid	8015B NM	81053
880-43626-16	S-16 (4.1')	Total/NA	Solid	8015B NM	81053
880-43626-17	S-17 (1')	Total/NA	Solid	8015B NM	81053
MB 880-81053/1-A	Method Blank	Total/NA	Solid	8015B NM	81053
LCS 880-81053/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	81053
LCSD 880-81053/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	81053

Analysis Batch: 81309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-18	S-18 (1')	Total/NA	Solid	8015B NM	81062
880-43626-19	S-19 (3')	Total/NA	Solid	8015B NM	81062
MB 880-81062/1-A	Method Blank	Total/NA	Solid	8015B NM	81062
LCS 880-81062/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	81062
LCSD 880-81062/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	81062
880-43626-18 MS	S-18 (1')	Total/NA	Solid	8015B NM	81062
880-43626-18 MSD	S-18 (1')	Total/NA	Solid	8015B NM	81062

Analysis Batch: 81323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-43626-2	S-2 (0-1')	Total/NA	Solid	8015 NM	
880-43626-3	S-3 (0-4')	Total/NA	Solid	8015 NM	
880-43626-4	S-4 (0-4')	Total/NA	Solid	8015 NM	
880-43626-5	S-5 (0-4')	Total/NA	Solid	8015 NM	
880-43626-6	S-6 (0-3')	Total/NA	Solid	8015 NM	
880-43626-7	S-7 (0-1')	Total/NA	Solid	8015 NM	
880-43626-8	S-8 (0-1')	Total/NA	Solid	8015 NM	
880-43626-9	S-9 (0-2')	Total/NA	Solid	8015 NM	
880-43626-10	S-10 (0-4')	Total/NA	Solid	8015 NM	
880-43626-11	S-11 (0-4')	Total/NA	Solid	8015 NM	
880-43626-12	S-12 (4.1')	Total/NA	Solid	8015 NM	
880-43626-13	S-13 (4.1')	Total/NA	Solid	8015 NM	
880-43626-14	S-14 (4.1')	Total/NA	Solid	8015 NM	
880-43626-15	S-15 (4.1')	Total/NA	Solid	8015 NM	
880-43626-16	S-16 (4.1')	Total/NA	Solid	8015 NM	
880-43626-17	S-17 (1')	Total/NA	Solid	8015 NM	
880-43626-18	S-18 (1')	Total/NA	Solid	8015 NM	
880-43626-19	S-19 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 81084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-43626-2	S-2 (0-1')	Soluble	Solid	DI Leach	
880-43626-3	S-3 (0-4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 81084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-4	S-4 (0-4')	Soluble	Solid	DI Leach	
880-43626-5	S-5 (0-4')	Soluble	Solid	DI Leach	
880-43626-6	S-6 (0-3')	Soluble	Solid	DI Leach	
880-43626-7	S-7 (0-1')	Soluble	Solid	DI Leach	
MB 880-81084/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-81084/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-81084/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 81085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-8	S-8 (0-1')	Soluble	Solid	DI Leach	
880-43626-9	S-9 (0-2')	Soluble	Solid	DI Leach	
880-43626-10	S-10 (0-4')	Soluble	Solid	DI Leach	
880-43626-11	S-11 (0-4')	Soluble	Solid	DI Leach	
880-43626-12	S-12 (4.1')	Soluble	Solid	DI Leach	
880-43626-13	S-13 (4.1')	Soluble	Solid	DI Leach	
880-43626-14	S-14 (4.1')	Soluble	Solid	DI Leach	
880-43626-15	S-15 (4.1')	Soluble	Solid	DI Leach	
880-43626-16	S-16 (4.1')	Soluble	Solid	DI Leach	
880-43626-17	S-17 (1')	Soluble	Solid	DI Leach	
880-43626-18	S-18 (1')	Soluble	Solid	DI Leach	
880-43626-19	S-19 (3')	Soluble	Solid	DI Leach	
MB 880-81085/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-81085/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-81085/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-43626-8 MS	S-8 (0-1')	Soluble	Solid	DI Leach	
880-43626-8 MSD	S-8 (0-1')	Soluble	Solid	DI Leach	
880-43626-18 MS	S-18 (1')	Soluble	Solid	DI Leach	
880-43626-18 MSD	S-18 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 81101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-1	S-1 (0-1')	Soluble	Solid	300.0	81084
880-43626-2	S-2 (0-1')	Soluble	Solid	300.0	81084
880-43626-3	S-3 (0-4')	Soluble	Solid	300.0	81084
880-43626-4	S-4 (0-4')	Soluble	Solid	300.0	81084
880-43626-5	S-5 (0-4')	Soluble	Solid	300.0	81084
880-43626-6	S-6 (0-3')	Soluble	Solid	300.0	81084
880-43626-7	S-7 (0-1')	Soluble	Solid	300.0	81084
MB 880-81084/1-A	Method Blank	Soluble	Solid	300.0	81084
LCS 880-81084/2-A	Lab Control Sample	Soluble	Solid	300.0	81084
LCSD 880-81084/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	81084

Analysis Batch: 81102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-8	S-8 (0-1')	Soluble	Solid	300.0	81085
880-43626-9	S-9 (0-2')	Soluble	Solid	300.0	81085
880-43626-10	S-10 (0-4')	Soluble	Solid	300.0	81085
880-43626-11	S-11 (0-4')	Soluble	Solid	300.0	81085
880-43626-12	S-12 (4.1')	Soluble	Solid	300.0	81085
880-43626-13	S-13 (4.1')	Soluble	Solid	300.0	81085

QC Association Summary

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Analysis Batch: 81102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43626-14	S-14 (4.1')	Soluble	Solid	300.0	81085
880-43626-15	S-15 (4.1')	Soluble	Solid	300.0	81085
880-43626-16	S-16 (4.1')	Soluble	Solid	300.0	81085
880-43626-17	S-17 (1')	Soluble	Solid	300.0	81085
880-43626-18	S-18 (1')	Soluble	Solid	300.0	81085
880-43626-19	S-19 (3')	Soluble	Solid	300.0	81085
MB 880-81085/1-A	Method Blank	Soluble	Solid	300.0	81085
LCS 880-81085/2-A	Lab Control Sample	Soluble	Solid	300.0	81085
LCSD 880-81085/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	81085
880-43626-8 MS	S-8 (0-1')	Soluble	Solid	300.0	81085
880-43626-8 MSD	S-8 (0-1')	Soluble	Solid	300.0	81085
880-43626-18 MS	S-18 (1')	Soluble	Solid	300.0	81085
880-43626-18 MSD	S-18 (1')	Soluble	Solid	300.0	81085

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-1
Matrix: Solid
Date Collected: 05/17/24 10:15
Date Received: 05/20/24 08:41

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	81124	05/20/24 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/21/24 17:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 17:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 14:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 14:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 16:50	SMC	EET MID

Client Sample ID: S-2 (0-1')

Lab Sample ID: 880-43626-2
Matrix: Solid
Date Collected: 05/17/24 10:20
Date Received: 05/20/24 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	81124	05/20/24 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/21/24 17:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 17:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 14:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 14:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:09	SMC	EET MID

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

Lab Sample ID: 880-43626-3
Matrix: Solid
Date Collected: 05/17/24 10:25
Date Received: 05/20/24 08:41

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	81124	05/20/24 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/21/24 18:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 18:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 14:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 14:41	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:15	SMC	EET MID

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

Lab Sample ID: 880-43626-4
Matrix: Solid
Date Collected: 05/17/24 10:30
Date Received: 05/20/24 08:41

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	81124	05/20/24 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/21/24 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 18:37	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-43626-4
Matrix: Solid
Date Collected: 05/17/24 10:30
Date Received: 05/20/24 08:41

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			81323	05/21/24 14:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 14:58	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:21	SMC	EET MID

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

Lab Sample ID: 880-43626-5
Matrix: Solid
Date Collected: 05/17/24 10:35
Date Received: 05/20/24 08:41

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	81124	05/20/24 15:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/21/24 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 18:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 15:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 15:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:28	SMC	EET MID

Client Sample ID: S-6 (0-3')

Lab Sample ID: 880-43626-6
Matrix: Solid
Date Collected: 05/17/24 10:40
Date Received: 05/20/24 08:41

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	81233	05/21/24 16:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81247	05/22/24 17:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/22/24 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 15:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:34	SMC	EET MID

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-43626-7
Matrix: Solid
Date Collected: 05/17/24 10:45
Date Received: 05/20/24 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	81211	05/21/24 16:30	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81147	05/22/24 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/22/24 06:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 15:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 15:50	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-7 (0-1')

Lab Sample ID: 880-43626-7
Matrix: Solid
Date Collected: 05/17/24 10:45
Date Received: 05/20/24 08:41

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	81084	05/20/24 10:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81101	05/20/24 17:40	SMC	EET MID

Client Sample ID: S-8 (0-1')

Lab Sample ID: 880-43626-8
Matrix: Solid
Date Collected: 05/17/24 10:50
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 16:23	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 18:37	SMC	EET MID

Client Sample ID: S-9 (0-2')

Lab Sample ID: 880-43626-9
Matrix: Solid
Date Collected: 05/17/24 10:55
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 16:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 16:40	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 18:56	SMC	EET MID

Client Sample ID: S-10 (0-4')

Lab Sample ID: 880-43626-10
Matrix: Solid
Date Collected: 05/17/24 11:00
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 12:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 16:57	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 19:02	SMC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-43626-11
Matrix: Solid
Date Collected: 05/17/24 11:05
Date Received: 05/20/24 08:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 12:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 17:14	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 19:08	SMC	EET MID

Client Sample ID: S-12 (4.1')

Lab Sample ID: 880-43626-12
Matrix: Solid
Date Collected: 05/17/24 11:10
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 13:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 17:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 17:31	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	81102	05/20/24 19:15	SMC	EET MID

Client Sample ID: S-13 (4.1')

Lab Sample ID: 880-43626-13
Matrix: Solid
Date Collected: 05/17/24 11:15
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 13:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 17:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	81102	05/20/24 19:34	SMC	EET MID

Client Sample ID: S-14 (4.1')

Lab Sample ID: 880-43626-14
Matrix: Solid
Date Collected: 05/17/24 11:20
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 13:59	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-14 (4.1')

Lab Sample ID: 880-43626-14
Matrix: Solid
Date Collected: 05/17/24 11:20
Date Received: 05/20/24 08:41

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			81323	05/21/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 18:03	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 19:40	SMC	EET MID

Client Sample ID: S-15 (4.1')

Lab Sample ID: 880-43626-15
Matrix: Solid
Date Collected: 05/17/24 11:25
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 14:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 18:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 18:19	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	81102	05/20/24 19:46	SMC	EET MID

Client Sample ID: S-16 (4.1')

Lab Sample ID: 880-43626-16
Matrix: Solid
Date Collected: 05/17/24 11:30
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 18:34	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	81102	05/20/24 19:52	SMC	EET MID

Client Sample ID: S-17 (1')

Lab Sample ID: 880-43626-17
Matrix: Solid
Date Collected: 05/17/24 11:35
Date Received: 05/20/24 08:41

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	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 15:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/21/24 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	81053	05/20/24 09:10	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81099	05/21/24 18:50	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: State A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Client Sample ID: S-17 (1')

Date Collected: 05/17/24 11:35
Date Received: 05/20/24 08:41

Lab Sample ID: 880-43626-17
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			5.02 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 19:59	SMC	EET MID

Client Sample ID: S-18 (1')

Date Collected: 05/17/24 11:40
Date Received: 05/20/24 08:41

Lab Sample ID: 880-43626-18
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			4.96 g	5 mL	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 16:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/22/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	81062	05/20/24 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81309	05/22/24 12:34	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 20:05	SMC	EET MID

Client Sample ID: S-19 (3')

Date Collected: 05/17/24 11:45
Date Received: 05/20/24 08:41

Lab Sample ID: 880-43626-19
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			5.02 g	5 mL	81082	05/20/24 10:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	81145	05/21/24 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			81284	05/21/24 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			81323	05/22/24 13:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	81062	05/20/24 09:48	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81309	05/22/24 13:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	81085	05/20/24 10:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81102	05/20/24 20:24	SMC	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 A A/C 1 # 65

Job ID: 880-43626-1
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	T104704400-23-26	06-30-24

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 A A/C 1 # 65

Job ID: 880-43626-1
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 A A/C 1 # 65

Job ID: 880-43626-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-43626-1	S-1 (0-1')	Solid	05/17/24 10:15	05/20/24 08:41	0-1'
880-43626-2	S-2 (0-1')	Solid	05/17/24 10:20	05/20/24 08:41	0-1'
880-43626-3	S-3 (0-4')	Solid	05/17/24 10:25	05/20/24 08:41	0-4'
880-43626-4	S-4 (0-4')	Solid	05/17/24 10:30	05/20/24 08:41	0-4'
880-43626-5	S-5 (0-4')	Solid	05/17/24 10:35	05/20/24 08:41	0-4'
880-43626-6	S-6 (0-3')	Solid	05/17/24 10:40	05/20/24 08:41	0-3'
880-43626-7	S-7 (0-1')	Solid	05/17/24 10:45	05/20/24 08:41	0-1'
880-43626-8	S-8 (0-1')	Solid	05/17/24 10:50	05/20/24 08:41	0-1'
880-43626-9	S-9 (0-2')	Solid	05/17/24 10:55	05/20/24 08:41	0-2'
880-43626-10	S-10 (0-4')	Solid	05/17/24 11:00	05/20/24 08:41	0-4'
880-43626-11	S-11 (0-4')	Solid	05/17/24 11:05	05/20/24 08:41	0-4'
880-43626-12	S-12 (4.1')	Solid	05/17/24 11:10	05/20/24 08:41	4.1'
880-43626-13	S-13 (4.1')	Solid	05/17/24 11:15	05/20/24 08:41	4.1'
880-43626-14	S-14 (4.1')	Solid	05/17/24 11:20	05/20/24 08:41	4.1'
880-43626-15	S-15 (4.1')	Solid	05/17/24 11:25	05/20/24 08:41	4.1'
880-43626-16	S-16 (4.1')	Solid	05/17/24 11:30	05/20/24 08:41	4.1'
880-43626-17	S-17 (1')	Solid	05/17/24 11:35	05/20/24 08:41	1'
880-43626-18	S-18 (1')	Solid	05/17/24 11:40	05/20/24 08:41	1'
880-43626-19	S-19 (3')	Solid	05/17/24 11:45	05/20/24 08:41	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

Work Order: 880-43626 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore (432)770-4217
Company Name:	Crain Environmental	Company Name:	FAE II (billy@faenergyus.com)
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy. Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

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 A A/C 1 # 65	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:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.3
Total Containers:		Corrected Temperature:	5.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-1 (0-1')	S	5/17/24	1015	0-1'	C	1		X	X	X	
S-2 (0-1')			1020	0-1'							
S-3 (0-4')			1025	0-4'							
S-4 (0-4')			1030	0-4'							
S-5 (0-4')			1035	0-4'							
S-6 (0-3')			1040	0-3'							
S-7 (0-1')			1045	0-1'							
S-8 (0-1')			1050	0-1'							
S-9 (0-2')			1055	0-2'							
S-10 (0-4')	↓	↓	1100	0-4'	↓	↓		↓	↓	↓	

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

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		5/20/24 1491	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: 436260

www.xenco.com Page 2 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244 Email:	Email:	Cindy.Crain@gmail.com

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 A A/C 1 #65	Turn Around	
Project Number:	—	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015M	BTEX	Chlorides	Sample Comments
S-11 (0-4')	S	5/17/24	1105	0-4'	C	1		X	X	X	
S-12 (4.1')			1110	4.1'							
S-13 (4.1')			1115	4.1'							
S-14 (4.1')			1120	4.1'							
S-15 (4.1')			1125	4.1'							
S-16 (4.1')			1130	4.1'							
S-17 (1')			1135	1'							
S-18 (1')			1140	1'							
S-19 (3')	↓	↓	1145	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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		5/20/24 8:41	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

880-43626 Chain of Custody

5/23/2024

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Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore (432)770-4217
Company Name:	Crain Environmental	Company Name:	FAE II (billy@faenergyus.com)
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy. Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244 Email:	Email:	cindy.crain@gmail.com

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 A A/C 1 # 65	Turn Around	
Project Number:	—	☒ Routine ☐ Rush	
Project Location:	Lea Co. NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.3
Total Containers:		Corrected Temperature:	5.0

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015M	BTEX	Chlorides	Sample Comments
S-1 (0-1')	S	5/17/24	1015	0-1'	C	1		X	X	X	
S-2 (0-1')			1020	0-1'							
S-3 (0-4')			1025	0-4'							
S-4 (0-4')			1030	0-4'							
S-5 (0-4')			1035	0-4'							
S-6 (0-3')			1040	0-3'							
S-7 (0-1')			1045	0-1'							
S-8 (0-1')			1050	0-1'							
S-9 (0-2')			1055	0-2'							
S-10 (0-4')			1100	0-4'							

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		5/20/24 941	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-43626-1
SDG Number: Lea Co., NM

Login Number: 43626
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 6/18/2024 1:18:59 PM

JOB DESCRIPTION

Tate A A/C 2 #65
Lea Co. NM

JOB NUMBER

880-44805-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
6/18/2024 1:18:59 PM

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

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Laboratory Job ID: 880-44805-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
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
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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: Tate A A/C 2 #65

Job ID: 880-44805-1

Job ID: 880-44805-1 Eurofins Midland

Job Narrative
880-44805-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the 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 6/14/2024 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: Caliche 1 (880-44805-1), Caliche 2 (880-44805-2), Caliche 3 (880-44805-3), Caliche 4 (880-44805-4), Caliche 5 (880-44805-5), Caliche 6 (880-44805-6), Caliche 7 (880-44805-7), Caliche 8 (880-44805-8), Topsoil 1 (880-44805-9), Topsoil 2 (880-44805-10), Topsoil 3 (880-44805-11) and Topsoil 4 (880-44805-12).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-44805-A-1-A 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-83276/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-83276 and analytical batch 880-83291 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC
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: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 1

Lab Sample ID: 880-44805-1
Matrix: Solid
Date Collected: 06/13/24 13:05
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 18:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 18:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 18:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 18:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 18:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/14/24 16:09*	*06/14/24 18:51*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*06/14/24 16:09*	*06/14/24 18:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		06/16/24 17:44	06/17/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/16/24 17:44*	*06/17/24 14:45*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/16/24 17:44*	*06/17/24 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.5**		5.02		mg/Kg			06/17/24 22:15	1

Client Sample ID: Caliche 2

Lab Sample ID: 880-44805-2
Matrix: Solid
Date Collected: 06/13/24 13:10
Date Received: 06/14/24 14:55

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		06/14/24 16:09	06/14/24 19:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 19:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 19:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 19:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 19:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:12*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:12*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 2

Date Collected: 06/13/24 13:10
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-2
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			06/14/24 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 15:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/16/24 17:44*	*06/17/24 15:47*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/16/24 17:44*	*06/17/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			06/17/24 22:30	1

Client Sample ID: Caliche 3

Date Collected: 06/13/24 13:15
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 19:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 19:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 19:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/14/24 16:09	06/14/24 19:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 19:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/14/24 16:09	06/14/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:32*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 19:32	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			06/17/24 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 16:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 16:08	1

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 3

Lab Sample ID: 880-44805-3
Matrix: Solid
Date Collected: 06/13/24 13:15
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/16/24 17:44*	*06/17/24 16:08*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/16/24 17:44*	*06/17/24 16:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.1**		4.96		mg/Kg			06/17/24 22:35	1

Client Sample ID: Caliche 4

Lab Sample ID: 880-44805-4
Matrix: Solid
Date Collected: 06/13/24 13:20
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 19:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 19:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 19:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 19:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 19:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/14/24 16:09*	*06/14/24 19:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 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	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 19:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 19:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/16/24 17:44*	*06/17/24 19:50*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/16/24 17:44*	*06/17/24 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.7**		4.97		mg/Kg			06/17/24 22:50	1

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 5

Lab Sample ID: 880-44805-5
Date Collected: 06/13/24 13:25
Matrix: Solid
Date Received: 06/14/24 14:55

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		06/14/24 16:09	06/14/24 20:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/14/24 16:09	06/14/24 20:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/14/24 16:09	06/14/24 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:13*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/14/24 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 17:05	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	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 17:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:05*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.8**		5.04		mg/Kg			06/17/24 22:55	1

Client Sample ID: Caliche 6

Lab Sample ID: 880-44805-6
Date Collected: 06/13/24 13:30
Matrix: Solid
Date Received: 06/14/24 14:55

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		06/14/24 16:09	06/14/24 20:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/24 16:09	06/14/24 20:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 20:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/24 16:09	06/14/24 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:34*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 6

Date Collected: 06/13/24 13:30
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/14/24 20:34	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	U	50.0		mg/Kg			06/17/24 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 17:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 17:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:26*	*1*
o-Terphenyl	*103*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.2**		4.99		mg/Kg			06/17/24 23:00	1

Client Sample ID: Caliche 7

Date Collected: 06/13/24 13:35
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-7
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		06/14/24 16:09	06/14/24 20:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 20:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 20:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 20:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 20:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:54*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/14/24 16:09*	*06/14/24 20:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 17:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 17:47	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 7

Lab Sample ID: 880-44805-7
Matrix: Solid
Date Collected: 06/13/24 13:35
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:47*	*1*
o-Terphenyl	*109*		*70 - 130*	*06/16/24 17:44*	*06/17/24 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.4**		4.98		mg/Kg			06/17/24 23:05	1

Client Sample ID: Caliche 8

Lab Sample ID: 880-44805-8
Matrix: Solid
Date Collected: 06/13/24 13:40
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 21:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 21:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 21:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/14/24 16:09	06/14/24 21:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/14/24 16:09	06/14/24 21:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/14/24 16:09	06/14/24 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:15*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/14/24 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 18:07	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	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 18:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 18:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:07*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.9**		5.00		mg/Kg			06/17/24 23:11	1

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Topsoil 1

Lab Sample ID: 880-44805-9
Matrix: Solid
Date Collected: 06/13/24 13:45
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 21:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 21:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 21:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 21:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/14/24 16:09	06/14/24 21:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/14/24 16:09	06/14/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:35*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/14/24 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/17/24 18:28	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		06/16/24 17:44	06/17/24 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/24 17:44	06/17/24 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:28*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.6**		5.02		mg/Kg			06/17/24 23:16	1

Client Sample ID: Topsoil 2

Lab Sample ID: 880-44805-10
Matrix: Solid
Date Collected: 06/13/24 13:50
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/14/24 16:09	06/14/24 21:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/14/24 16:09	06/14/24 21:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/14/24 16:09	06/14/24 21:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/14/24 16:09	06/14/24 21:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/14/24 16:09	06/14/24 21:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/14/24 16:09	06/14/24 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:56*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/14/24 16:09*	*06/14/24 21:56*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Topsoil 2

Date Collected: 06/13/24 13:50
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/14/24 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/17/24 18:48	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	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 18:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 18:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/16/24 17:44	06/17/24 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:48*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/16/24 17:44*	*06/17/24 18:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.0**		4.97		mg/Kg			06/17/24 23:21	1

Client Sample ID: Topsoil 3

Date Collected: 06/13/24 13:55
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 23:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 23:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/14/24 16:09*	*06/14/24 23:29*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/14/24 16:09*	*06/14/24 23:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/17/24 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 20:11	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Topsoil 3

Lab Sample ID: 880-44805-11
Matrix: Solid
Date Collected: 06/13/24 13:55
Date Received: 06/14/24 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/24 17:44	06/17/24 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/16/24 17:44*	*06/17/24 20:11*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/16/24 17:44*	*06/17/24 20:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.2**		4.98		mg/Kg			06/17/24 18:08	1

Client Sample ID: Topsoil 4

Lab Sample ID: 880-44805-12
Matrix: Solid
Date Collected: 06/13/24 14:00
Date Received: 06/14/24 14:55

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		06/14/24 16:09	06/14/24 23:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 23:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/14/24 16:09	06/14/24 23:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/14/24 16:09	06/14/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/14/24 16:09*	*06/14/24 23:50*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/14/24 16:09*	*06/14/24 23:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/14/24 23:50	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	U	50.0		mg/Kg			06/17/24 19:09	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	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*06/16/24 17:44*	*06/17/24 19:09*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/16/24 17:44*	*06/17/24 19:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.0**		5.04		mg/Kg			06/17/24 18:23	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
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)
880-44805-1	Caliche 1	114	83
880-44805-1 MS	Caliche 1	136 S1+	89
880-44805-1 MSD	Caliche 1	109	99
880-44805-2	Caliche 2	103	96
880-44805-3	Caliche 3	111	101
880-44805-4	Caliche 4	111	101
880-44805-5	Caliche 5	108	101
880-44805-6	Caliche 6	107	100
880-44805-7	Caliche 7	109	101
880-44805-8	Caliche 8	116	101
880-44805-9	Topsoil 1	121	95
880-44805-10	Topsoil 2	114	94
880-44805-11	Topsoil 3	103	94
880-44805-12	Topsoil 4	115	98
LCS 880-83264/1-A	Lab Control Sample	102	97
LCSD 880-83264/2-A	Lab Control Sample Dup	101	97
MB 880-83199/8	Method Blank	106	96
MB 880-83264/5-A	Method Blank	107	96

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)
880-44805-1	Caliche 1	89	108
880-44805-1 MS	Caliche 1	78	83
880-44805-1 MSD	Caliche 1	88	91
880-44805-2	Caliche 2	79	91
880-44805-3	Caliche 3	83	92
880-44805-4	Caliche 4	85	101
880-44805-5	Caliche 5	78	98
880-44805-6	Caliche 6	81	103
880-44805-7	Caliche 7	90	109
880-44805-8	Caliche 8	78	96
880-44805-9	Topsoil 1	94	110
880-44805-10	Topsoil 2	78	90
880-44805-11	Topsoil 3	85	106
880-44805-12	Topsoil 4	83	98
LCS 880-83276/2-A	Lab Control Sample	110	125
LCSD 880-83276/3-A	Lab Control Sample Dup	119	137 S1+
MB 880-83276/1-A	Method Blank	86	110

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-83199/8
Matrix: Solid
Analysis Batch: 83199

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			06/14/24 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg			06/14/24 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			06/14/24 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			06/14/24 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			06/14/24 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			06/14/24 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*06/14/24 11:08*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*06/14/24 11:08*	*1*

Lab Sample ID: MB 880-83264/5-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83264

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 18:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 18:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 18:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/24 16:09	06/14/24 18:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/24 16:09	06/14/24 18:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/24 16:09	06/14/24 18:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/14/24 16:09*	*06/14/24 18:30*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/14/24 16:09*	*06/14/24 18:30*	*1*

Lab Sample ID: LCS 880-83264/1-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83264

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1184		mg/Kg		118	70 - 130
Toluene	0.100	0.1072		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2208		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-83264/2-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83264

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1119		mg/Kg		112	70 - 130	6	35

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QC Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-83264/2-A
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83264

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1017		mg/Kg		102	70 - 130	5	35
Ethylbenzene			0.100	0.09991		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2095		mg/Kg		105	70 - 130	5	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-44805-1 MS
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Caliche 1
Prep Type: Total/NA
Prep Batch: 83264

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09174		mg/Kg		92	70 - 130
Toluene	<0.00199	U	0.0996	0.1063		mg/Kg		107	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1135		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2433		mg/Kg		122	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1181		mg/Kg		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-44805-1 MSD
Matrix: Solid
Analysis Batch: 83199

Client Sample ID: Caliche 1
Prep Type: Total/NA
Prep Batch: 83264

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	19	35
Toluene	<0.00199	U	0.101	0.1004		mg/Kg		100	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.09750		mg/Kg		97	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2039		mg/Kg		101	70 - 130	18	35
o-Xylene	<0.00199	U	0.101	0.09992		mg/Kg		99	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-83276/1-A
Matrix: Solid
Analysis Batch: 83291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83276

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		06/16/24 17:44	06/17/24 12:17	1

QC Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-83276/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83291 — **Prep Batch: 83276**

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		06/16/24 17:44	06/17/24 12:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/24 17:44	06/17/24 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*06/16/24 17:44*	*06/17/24 12:17*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/16/24 17:44*	*06/17/24 12:17*	*1*

Lab Sample ID: LCS 880-83276/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83291 — **Prep Batch: 83276**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	941.8		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-83276/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83291 — **Prep Batch: 83276**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1098		mg/Kg		110	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	953.0		mg/Kg		95	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

Lab Sample ID: 880-44805-1 MS — **Client Sample ID: Caliche 1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83291 — **Prep Batch: 83276**

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	995	762.1		mg/Kg		74	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	454.4	F1	mg/Kg		46	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-44805-1 MSD — **Client Sample ID: Caliche 1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 83291 — **Prep Batch: 83276**

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	995	930.0		mg/Kg		91	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	995	528.8	F1	mg/Kg		53	70 - 130	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-83266/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 83319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/17/24 20:49	1

Lab Sample ID: LCS 880-83266/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 83319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.9		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-83266/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 83319

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-44805-1 MS — **Client Sample ID: Caliche 1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 83319

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	48.5		251	298.9		mg/Kg		100	90 - 110

Lab Sample ID: 880-44805-1 MSD — **Client Sample ID: Caliche 1**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 83319

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	48.5		251	297.2		mg/Kg		99	90 - 110	1	20

QC Sample Results

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-83312/1-A
Matrix: Solid
Analysis Batch: 83320

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/17/24 17:53	1

Lab Sample ID: LCS 880-83312/2-A
Matrix: Solid
Analysis Batch: 83320

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-83312/3-A
Matrix: Solid
Analysis Batch: 83320

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	250.4		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-44805-11 MS
Matrix: Solid
Analysis Batch: 83320

Client Sample ID: Topsoil 3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	38.2		249	289.2		mg/Kg		101	90 - 110		

Lab Sample ID: 880-44805-11 MSD
Matrix: Solid
Analysis Batch: 83320

Client Sample ID: Topsoil 3
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.2		249	289.9		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

GC VOA

Analysis Batch: 83199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	8021B	83264
880-44805-2	Caliche 2	Total/NA	Solid	8021B	83264
880-44805-3	Caliche 3	Total/NA	Solid	8021B	83264
880-44805-4	Caliche 4	Total/NA	Solid	8021B	83264
880-44805-5	Caliche 5	Total/NA	Solid	8021B	83264
880-44805-6	Caliche 6	Total/NA	Solid	8021B	83264
880-44805-7	Caliche 7	Total/NA	Solid	8021B	83264
880-44805-8	Caliche 8	Total/NA	Solid	8021B	83264
880-44805-9	Topsoil 1	Total/NA	Solid	8021B	83264
880-44805-10	Topsoil 2	Total/NA	Solid	8021B	83264
880-44805-11	Topsoil 3	Total/NA	Solid	8021B	83264
880-44805-12	Topsoil 4	Total/NA	Solid	8021B	83264
MB 880-83199/8	Method Blank	Total/NA	Solid	8021B	
MB 880-83264/5-A	Method Blank	Total/NA	Solid	8021B	83264
LCS 880-83264/1-A	Lab Control Sample	Total/NA	Solid	8021B	83264
LCSD 880-83264/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	83264
880-44805-1 MS	Caliche 1	Total/NA	Solid	8021B	83264
880-44805-1 MSD	Caliche 1	Total/NA	Solid	8021B	83264

Prep Batch: 83264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	5035	
880-44805-2	Caliche 2	Total/NA	Solid	5035	
880-44805-3	Caliche 3	Total/NA	Solid	5035	
880-44805-4	Caliche 4	Total/NA	Solid	5035	
880-44805-5	Caliche 5	Total/NA	Solid	5035	
880-44805-6	Caliche 6	Total/NA	Solid	5035	
880-44805-7	Caliche 7	Total/NA	Solid	5035	
880-44805-8	Caliche 8	Total/NA	Solid	5035	
880-44805-9	Topsoil 1	Total/NA	Solid	5035	
880-44805-10	Topsoil 2	Total/NA	Solid	5035	
880-44805-11	Topsoil 3	Total/NA	Solid	5035	
880-44805-12	Topsoil 4	Total/NA	Solid	5035	
MB 880-83264/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-83264/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-83264/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-44805-1 MS	Caliche 1	Total/NA	Solid	5035	
880-44805-1 MSD	Caliche 1	Total/NA	Solid	5035	

Analysis Batch: 83326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	Total BTEX	
880-44805-2	Caliche 2	Total/NA	Solid	Total BTEX	
880-44805-3	Caliche 3	Total/NA	Solid	Total BTEX	
880-44805-4	Caliche 4	Total/NA	Solid	Total BTEX	
880-44805-5	Caliche 5	Total/NA	Solid	Total BTEX	
880-44805-6	Caliche 6	Total/NA	Solid	Total BTEX	
880-44805-7	Caliche 7	Total/NA	Solid	Total BTEX	
880-44805-8	Caliche 8	Total/NA	Solid	Total BTEX	
880-44805-9	Topsoil 1	Total/NA	Solid	Total BTEX	
880-44805-10	Topsoil 2	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 83326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-11	Topsoil 3	Total/NA	Solid	Total BTEX	
880-44805-12	Topsoil 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 83276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	8015NM Prep	
880-44805-2	Caliche 2	Total/NA	Solid	8015NM Prep	
880-44805-3	Caliche 3	Total/NA	Solid	8015NM Prep	
880-44805-4	Caliche 4	Total/NA	Solid	8015NM Prep	
880-44805-5	Caliche 5	Total/NA	Solid	8015NM Prep	
880-44805-6	Caliche 6	Total/NA	Solid	8015NM Prep	
880-44805-7	Caliche 7	Total/NA	Solid	8015NM Prep	
880-44805-8	Caliche 8	Total/NA	Solid	8015NM Prep	
880-44805-9	Topsoil 1	Total/NA	Solid	8015NM Prep	
880-44805-10	Topsoil 2	Total/NA	Solid	8015NM Prep	
880-44805-11	Topsoil 3	Total/NA	Solid	8015NM Prep	
880-44805-12	Topsoil 4	Total/NA	Solid	8015NM Prep	
MB 880-83276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-83276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-83276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-44805-1 MS	Caliche 1	Total/NA	Solid	8015NM Prep	
880-44805-1 MSD	Caliche 1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 83291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	8015B NM	83276
880-44805-2	Caliche 2	Total/NA	Solid	8015B NM	83276
880-44805-3	Caliche 3	Total/NA	Solid	8015B NM	83276
880-44805-4	Caliche 4	Total/NA	Solid	8015B NM	83276
880-44805-5	Caliche 5	Total/NA	Solid	8015B NM	83276
880-44805-6	Caliche 6	Total/NA	Solid	8015B NM	83276
880-44805-7	Caliche 7	Total/NA	Solid	8015B NM	83276
880-44805-8	Caliche 8	Total/NA	Solid	8015B NM	83276
880-44805-9	Topsoil 1	Total/NA	Solid	8015B NM	83276
880-44805-10	Topsoil 2	Total/NA	Solid	8015B NM	83276
880-44805-11	Topsoil 3	Total/NA	Solid	8015B NM	83276
880-44805-12	Topsoil 4	Total/NA	Solid	8015B NM	83276
MB 880-83276/1-A	Method Blank	Total/NA	Solid	8015B NM	83276
LCS 880-83276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	83276
LCSD 880-83276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	83276
880-44805-1 MS	Caliche 1	Total/NA	Solid	8015B NM	83276
880-44805-1 MSD	Caliche 1	Total/NA	Solid	8015B NM	83276

Analysis Batch: 83441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Total/NA	Solid	8015 NM	
880-44805-2	Caliche 2	Total/NA	Solid	8015 NM	
880-44805-3	Caliche 3	Total/NA	Solid	8015 NM	
880-44805-4	Caliche 4	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 83441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-5	Caliche 5	Total/NA	Solid	8015 NM	
880-44805-6	Caliche 6	Total/NA	Solid	8015 NM	
880-44805-7	Caliche 7	Total/NA	Solid	8015 NM	
880-44805-8	Caliche 8	Total/NA	Solid	8015 NM	
880-44805-9	Topsoil 1	Total/NA	Solid	8015 NM	
880-44805-10	Topsoil 2	Total/NA	Solid	8015 NM	
880-44805-11	Topsoil 3	Total/NA	Solid	8015 NM	
880-44805-12	Topsoil 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 83266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Soluble	Solid	DI Leach	
880-44805-2	Caliche 2	Soluble	Solid	DI Leach	
880-44805-3	Caliche 3	Soluble	Solid	DI Leach	
880-44805-4	Caliche 4	Soluble	Solid	DI Leach	
880-44805-5	Caliche 5	Soluble	Solid	DI Leach	
880-44805-6	Caliche 6	Soluble	Solid	DI Leach	
880-44805-7	Caliche 7	Soluble	Solid	DI Leach	
880-44805-8	Caliche 8	Soluble	Solid	DI Leach	
880-44805-9	Topsoil 1	Soluble	Solid	DI Leach	
880-44805-10	Topsoil 2	Soluble	Solid	DI Leach	
MB 880-83266/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83266/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83266/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44805-1 MS	Caliche 1	Soluble	Solid	DI Leach	
880-44805-1 MSD	Caliche 1	Soluble	Solid	DI Leach	

Leach Batch: 83312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-11	Topsoil 3	Soluble	Solid	DI Leach	
880-44805-12	Topsoil 4	Soluble	Solid	DI Leach	
MB 880-83312/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-83312/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-83312/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-44805-11 MS	Topsoil 3	Soluble	Solid	DI Leach	
880-44805-11 MSD	Topsoil 3	Soluble	Solid	DI Leach	

Analysis Batch: 83319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-1	Caliche 1	Soluble	Solid	300.0	83266
880-44805-2	Caliche 2	Soluble	Solid	300.0	83266
880-44805-3	Caliche 3	Soluble	Solid	300.0	83266
880-44805-4	Caliche 4	Soluble	Solid	300.0	83266
880-44805-5	Caliche 5	Soluble	Solid	300.0	83266
880-44805-6	Caliche 6	Soluble	Solid	300.0	83266
880-44805-7	Caliche 7	Soluble	Solid	300.0	83266
880-44805-8	Caliche 8	Soluble	Solid	300.0	83266
880-44805-9	Topsoil 1	Soluble	Solid	300.0	83266
880-44805-10	Topsoil 2	Soluble	Solid	300.0	83266

QC Association Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 83319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-83266/1-A	Method Blank	Soluble	Solid	300.0	83266
LCS 880-83266/2-A	Lab Control Sample	Soluble	Solid	300.0	83266
LCSD 880-83266/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83266
880-44805-1 MS	Caliche 1	Soluble	Solid	300.0	83266
880-44805-1 MSD	Caliche 1	Soluble	Solid	300.0	83266

Analysis Batch: 83320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-44805-11	Topsoil 3	Soluble	Solid	300.0	83312
880-44805-12	Topsoil 4	Soluble	Solid	300.0	83312
MB 880-83312/1-A	Method Blank	Soluble	Solid	300.0	83312
LCS 880-83312/2-A	Lab Control Sample	Soluble	Solid	300.0	83312
LCSD 880-83312/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	83312
880-44805-11 MS	Topsoil 3	Soluble	Solid	300.0	83312
880-44805-11 MSD	Topsoil 3	Soluble	Solid	300.0	83312

Lab Chronicle

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 1

Lab Sample ID: 880-44805-1
Matrix: Solid
Date Collected: 06/13/24 13:05
Date Received: 06/14/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 18:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 14:45	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 22:15	CH	EET MID

Client Sample ID: Caliche 2

Lab Sample ID: 880-44805-2
Matrix: Solid
Date Collected: 06/13/24 13:10
Date Received: 06/14/24 14:55

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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 19:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 15:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 15:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 22:30	CH	EET MID

Client Sample ID: Caliche 3

Lab Sample ID: 880-44805-3
Matrix: Solid
Date Collected: 06/13/24 13:15
Date Received: 06/14/24 14:55

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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 19:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 16:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 16:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 22:35	CH	EET MID

Client Sample ID: Caliche 4

Lab Sample ID: 880-44805-4
Matrix: Solid
Date Collected: 06/13/24 13:20
Date Received: 06/14/24 14:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 19:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 4

Date Collected: 06/13/24 13:20
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-4
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			83441	06/17/24 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 19:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 22:50	CH	EET MID

Client Sample ID: Caliche 5

Date Collected: 06/13/24 13:25
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-5
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			4.99 g	5 mL	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 17:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 22:55	CH	EET MID

Client Sample ID: Caliche 6

Date Collected: 06/13/24 13:30
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-6
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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 20:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 20:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 17:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 23:00	CH	EET MID

Client Sample ID: Caliche 7

Date Collected: 06/13/24 13:35
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-7
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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 20:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 20:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 17:47	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Caliche 7

Lab Sample ID: 880-44805-7
Matrix: Solid
Date Collected: 06/13/24 13:35
Date Received: 06/14/24 14:55

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	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 23:05	CH	EET MID

Client Sample ID: Caliche 8

Lab Sample ID: 880-44805-8
Matrix: Solid
Date Collected: 06/13/24 13:40
Date Received: 06/14/24 14:55

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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 21:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 21:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 18:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 18:07	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 23:11	CH	EET MID

Client Sample ID: Topsoil 1

Lab Sample ID: 880-44805-9
Matrix: Solid
Date Collected: 06/13/24 13:45
Date Received: 06/14/24 14:55

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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 21:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 21:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 18:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 18:28	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 23:16	CH	EET MID

Client Sample ID: Topsoil 2

Lab Sample ID: 880-44805-10
Matrix: Solid
Date Collected: 06/13/24 13:50
Date Received: 06/14/24 14:55

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	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 21:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 21:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	83266	06/14/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83319	06/17/24 23:21	CH	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Client Sample ID: Topsoil 3

Date Collected: 06/13/24 13:55
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 23:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 23:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 20:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	83312	06/17/24 09:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83320	06/17/24 18:08	CH	EET MID

Client Sample ID: Topsoil 4

Date Collected: 06/13/24 14:00
Date Received: 06/14/24 14:55

Lab Sample ID: 880-44805-12

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			4.98 g	5 mL	83264	06/14/24 16:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	83199	06/14/24 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			83326	06/14/24 23:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			83441	06/17/24 19:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	83276	06/16/24 17:44	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	83291	06/17/24 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	83312	06/17/24 09:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	83320	06/17/24 18:23	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Tate A A/C 2 #65

Job ID: 880-44805-1
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	T104704400-23-26	06-30-24

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: Tate A A/C 2 #65

Job ID: 880-44805-1
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: Tate A A/C 2 #65

Job ID: 880-44805-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-44805-1	Caliche 1	Solid	06/13/24 13:05	06/14/24 14:55
880-44805-2	Caliche 2	Solid	06/13/24 13:10	06/14/24 14:55
880-44805-3	Caliche 3	Solid	06/13/24 13:15	06/14/24 14:55
880-44805-4	Caliche 4	Solid	06/13/24 13:20	06/14/24 14:55
880-44805-5	Caliche 5	Solid	06/13/24 13:25	06/14/24 14:55
880-44805-6	Caliche 6	Solid	06/13/24 13:30	06/14/24 14:55
880-44805-7	Caliche 7	Solid	06/13/24 13:35	06/14/24 14:55
880-44805-8	Caliche 8	Solid	06/13/24 13:40	06/14/24 14:55
880-44805-9	Topsoil 1	Solid	06/13/24 13:45	06/14/24 14:55
880-44805-10	Topsoil 2	Solid	06/13/24 13:50	06/14/24 14:55
880-44805-11	Topsoil 3	Solid	06/13/24 13:55	06/14/24 14:55
880-44805-12	Topsoil 4	Solid	06/13/24 14:00	06/14/24 14:55

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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: 880-44805 Chain of Custody

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Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore (432) 770-4217
Company Name:	Crain Environmental	Company Name:	FAE II (billy@faenergyus.com)
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244 Email:		Cindy.crain@gmail.com

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 A A/C 2 #65	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:	3.1	
Total Containers:		Corrected Temperature:	3.0	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 M	BTEX	Chlorides	Sample Comments
Caliche 1	S	6/13/24	1305	–	C	1		X	X	X	
Caliche 2			1310								
Caliche 3			1315								
Caliche 4			1320								
Caliche 5			1325								
Caliche 6			1330								
Caliche 7			1335								
Caliche 8			1340								
Topsoil 1			1345								
Topsoil 2			1350								

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		6/14/24 1455	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: 414605

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Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy. Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244 Email:		Cindy.Crain@gmail.com

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 A A/C 2 #65	Turn Around	
Project Number:	-	☒ Routine ☐ Rush	
Project Location:	Lea Co, NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	-		

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

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
Topsoil 3	S	6/13/24	1355	-	C	1		X	X	X	
Topsoil 4	S	6/13/24	1400	-	C	1		X	X	X	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		6/14/24 1455	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-44805-1
SDG Number: Lea Co. NM

Login Number: 44805
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 E: Waste Manifests

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

6 40 yards

Date: 5.11.24

Generator: Forty Acres

Job #: J&L #1 3389

Trucking Co: MATA TRK 105

Site Location: 54 AC-1 #65

Total Yards/Day: 7 Ldg 140 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 9-11-24

Generator: Forty Acres

Job #: J+L # 3359

Trucking Co: MATA # 314

Site Location: 5+ AAC.1 #65

Total Yards/Day: 74 yds 140 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-11-24

Generator: Forty Acres

Job #: J&L # 3389

Trucking Co: Mato # 51

Site Location: St. APC-1 #65

Total Yards/Day: 7 yds 140 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-11-24

Generator: Forty Acres

Job #: J&L # 3389

Trucking Co: MATA # 151

Site Location: State AB-C-1 #065

Total Yards/Day: (20ea) 120yds

Landfarm Representative:

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-11-24

Generator: Forty Acres

Job #: J+L # 3389

Trucking Co: MATA # 49

Site Location: State AA-C-1 #865

Total Yards/Day: (20ea.) 1TH 100yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-13-24

Generator: Fostey Acres

Job #: J+L # 3389

Trucking Co: Mata # 49

Site Location: State AA C-1 # 49

Total Yards/Day: (20yds ea) 1 20yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-13-24

Generator: Forty Acres

Job #: J&L# 3389

Trucking Co: Mata # 51

Site Location: St. AAC-1 #69

Total Yards/Day: 20yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-20-24

Generator: Forty Acres

Job #: J&L #3389

Trucking Co: Mata 12yd ND #

Site Location: STATE AB-CI #065

Total Yards/Day: (12yds ea) 5 6 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-20-24

Generator: Forty Acres

Job #: J&L # 3589

Trucking Co: MATA # 151

Site Location: State AA-C #065

Total Yards/Day: (20 cy.) 6 = 120yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-20-24

Generator: Forty Acres

Job #: J&L# 3959

Trucking Co: MATA #101

Site Location: St AA-C #065

Total Yards/Day: (20ea) TKL 6 120yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-20-24

Generator: Forty Acres

Job #: J+L, # 3384

Trucking Co: Mata # 51

Site Location: State AA - C1 #065

Total Yards/Day: (20 yds) 2x4 (6) 120 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-21-24

Generator: Footy Acres

Job #: J+L # 3384

Trucking Co: MATA # 49

Site Location: Sec. AA-C # 065

Total Yards/Day: 400 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-21-24

Generator: Forty Acres

Job #: J&L # 5389

Trucking Co: Mata # 101

Site Location: State A A-C # 065

Total Yards/Day: (20yd rea) 111 (4) 80 yds

Landfarm Representative: David Jett

(3) 60 yds

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-21-24

Generator: Forty Acres

Job #: J+L # 3389

Trucking Co: Mata 12yd NO #

Site Location: State AAC #065

Total Yards/Day: (12yd x 2) ||| (2) 24yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-21-24

Generator: Forty Acres

Job #: J&L # 3389

Trucking Co: MATA # 51

Site Location: State A A-C # 065

Total Yards/Day: (70 yds ea) 111 80 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 5-21-24

Generator: Forty Acres

Job #: J+L-F 3389

Trucking Co: MATA #151

Site Location: State AA-C #065

Total Yards/Day: (20 yds ea) 1151 80 yd

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 6-10-24

Generator: Forty Acres

Job #: T&C #3389

Trucking Co: MAH #151

Site Location: State AA-C1 #065

Total Yards/Day: 20yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 6-10-24

Generator: Forty Acres

Job #: TH C# 3359

Trucking Co: MATA #51

Site Location: State AA-C1 #065

Total Yards/Day: 20 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 6-14-24

Generator: Forty Acres

Job #: J+L # 3343

Trucking Co: MATA - # 51

Site Location: State AAC - 065

Total Yards/Day: (70cy) 11 4 Dyds

Landfarm Representative: David Jett

Appendix F: Photographic Documentation

APPENDIX F
PHOTOGRAPHIC DOCUMENTATION
STATE A A/C 2 #65 INJECTION WELL

View to NW of release (3/20/24)

View to N of release (3/20/24).

View to N of excavation (5/13/24).

View to NE of excavation (5/13/24).

View to NE of excavation (5/13/24).

View to S of backfill topsoil (5/17/24).

View to SE of backfill caliche (5/17/24).

View to SE of excavation (5/19/24).

APPENDIX F
PHOTOGRAPHIC DOCUMENTATION
STATE A A/C 2 #65 INJECTION WELL


View to NE of excavation (5/19/24).


View to W of backfilled excavation (6/24/24).


View to NE of backfilled excavation (6/24/24).


View to NW of excavation (6/24/24).


View to E of backfilled excavation (6/24/24).


View to SE of backfilled excavation (6/24/24).


View to S of backfilled excavation (6/24/24).


View to SE of backfilled excavation (6/24/24).

Appendix G: Cultural Resources Data

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Registration

Lead Agency: NM State Land Office

Performing Agency: APAC

Activity ID: State A A/C 2 #065 Injection Well Accidental Release

Performing Agency Report No: APAC 24-05-09

Other Agencies:

Report Recipient (Your Client): Crain Environmental representing FAE II Operating, LLC

Activity Types:

- ☐ Research Design
- ☑ Archaeological Survey/Inventory
- ☐ Architectural Survey/Inventory
- ☐ Test Excavation
- ☐ Monitoring
- ☐ Collections/Non-Field Study
- ☐ Compliance Decision
- ☐ Literature Review Overview
- ☐ Excavation
- ☐ Ethnographic Study
- ☐ Resource/Property Visit
- ☐ Historic Structures Report
- ☐ Other:

Total Survey Acreage: 9.22

Total Tribal Acreage: 0.00

Total Resources Visited: 0

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Associate/Register Resources

Prefix	Number	Field Site/Other Number	In GIS	Resource Type	Collections Made?	Revisit

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Report Details

Type of Report

Type of Report Negative

Lead Agency

Lead Agency: NM State Land Office

Lead Agency Report No.

Report Number:

Title of Report

Title of Report: A Cultural Survey for the State A A/C 2 #065 Injection Well Accidental Release Area in Lea County, New Mexico for FAE II Operating, LLC represented by Crain Environmental

Authors: Pangburn, Jeffrey and Kathi Pangburn

Publication Type: Report, Monograph, or Book

Description of Undertaking (what does the project entail?)

Description: On the 5th of June 2024, Jeffrey Pangburn and Tommy McCormick with APAC conducted a class III archaeological survey for the State A A/C 2 #065 injection well accidental release area. This project is located on State land in section 9 of T 22 S R 36 E; Lea County, New Mexico. The cultural resource inventory was conducted at the request of Cindy Crain with Crain Environmental representing FAE II Operating, LLC. This cultural survey is to allow for clean-up and remediation efforts. The project was conducted to meet or exceed all current professional standards for conducting cultural surveys in New Mexico.

Crain Environmental provided a location map and kmz files prior to the cultural survey. The area of concern for the accidental release is an irregularly shaped rectangle measuring 1.24 (+/-) acres. This area was surveyed by placing a 200' cultural buffer around the release area. A total of 9.22 (+/-) acres of State land were surveyed for this project. The direct effect of the project totals 1.24 (+/-) acres. The indirect effect of the project totals 7.98 (+/-) acres.

During the course of the survey, no cultural materials were located in the project area of the accidental release. A pre-field review of the GLO database found serial patent NMR 0029989 associated with the project area. This patent was issued in 1927 under the authority of the 1910 New Mexico Enabling Act and details a transfer of land from the US government to the State of New Mexico. No artifacts were found in connection with the patent. The survey located no cultural materials and archaeological clearance is recommended for clean-up

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NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Report Details

and remediation efforts as the project is currently designed.

This project crosses through low hills within a semi-arid desert environment located on State land in Lea County, New Mexico. Impacts to the proposed project area include an existing lease road, tank battery, and a buried pipeline. The survey area of the accidental release project is plotted on the attached project map. Location plots for the project were obtained by utilizing a survey grade hand held GPS.

Dates of Investigation

From: 31-May-2024 **To:** 05-Jun-2024

Report Date

Report Date: 10-Jun-2024

Performing Agency/Consultant

Name: APAC

Principal Investigator: David V. Hill, PhD

Field Supervisor: Jeffrey Pangburn

Field Personnel Names: Tommy McCormick

Historian/Other

Performing Agency Report Number

Report Number: APAC 24-05-09

Client/Customer (project proponent)

Name: Crain Environmental representing FAE II Operating, LLC

Contact: Cindy Crain

Address: 2925 East 17th Street, Odessa, TX 79761, USA

Phone (575) 441-7244

Client/Customer Project Number

Project Number:

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Ownership & Location

Land Ownership Status (Must be indicated on Project Map)

Owner/Manager List:

Land Owner/Manager	Protocol	Acres Surveyed	Acres in APE
NM State Land Office	Class III	9.22	1.24

Total Survey Acreage: 9.22

Total Tribal Acreage: 0.00

Record Search(es)

Date of HPD/ARMS File Review: 31-May-2024

Date of Other Agency File Review 31-May-2024

Survey Data

Source Graphics: NAD 83

☑ USGS 7.5' (1:24,000) topo map ☐ Other Topo Map Scale:

☑ GPS Unit 1-10M

☐ Aerial Photos Other Source Graphic(s):

The following tables (b,c,& e) are calculated by the NMCRIS Map Service

USGS 7.5' Topographic Map(s)

Map Name	USGS Quad Code
Oil Center, NM	32103-D3

County(ies)

County	FIPS
LEA	35023

Legal Description

Unplatted	Township (N/S)	Range (E/W)	Section
No	T22S	R36E	8
No	T22S	R36E	9

Projected Legal Description

Nearest City or Town: Eunice, New Mexico

Other Description:

NMCRIS No: 155804

6/10/2024, 2:33:38 PM

Archaeological Surveys

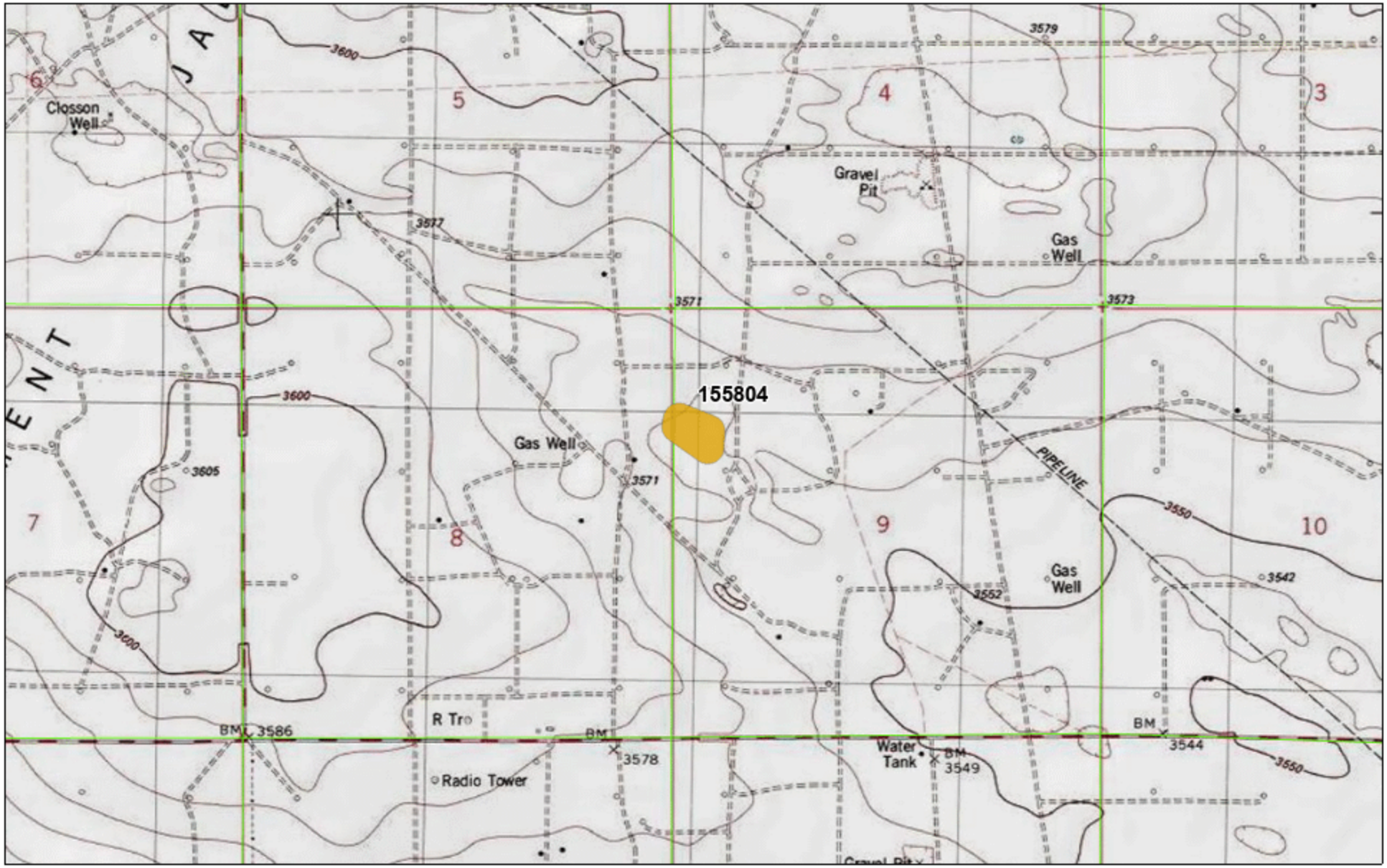
Proposed

1:5,079

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

NMCRIS No: 155804



6/10/2024, 2:33:38 PM

Archaeological Surveys

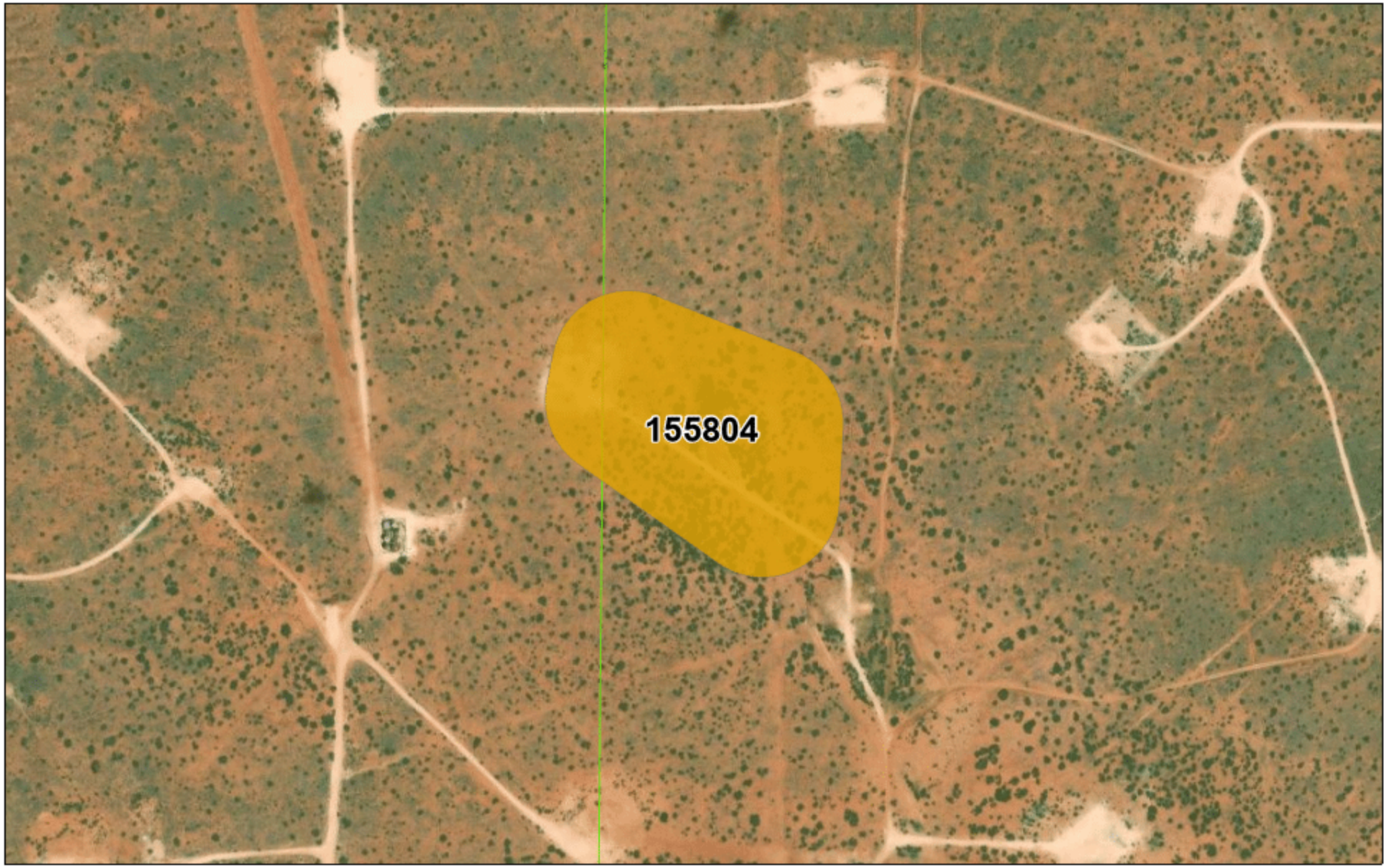
Proposed

1:24,000

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

NMCRIS No: 155804



6/10/2024, 2:33:38 PM

Archaeological Surveys

Proposed

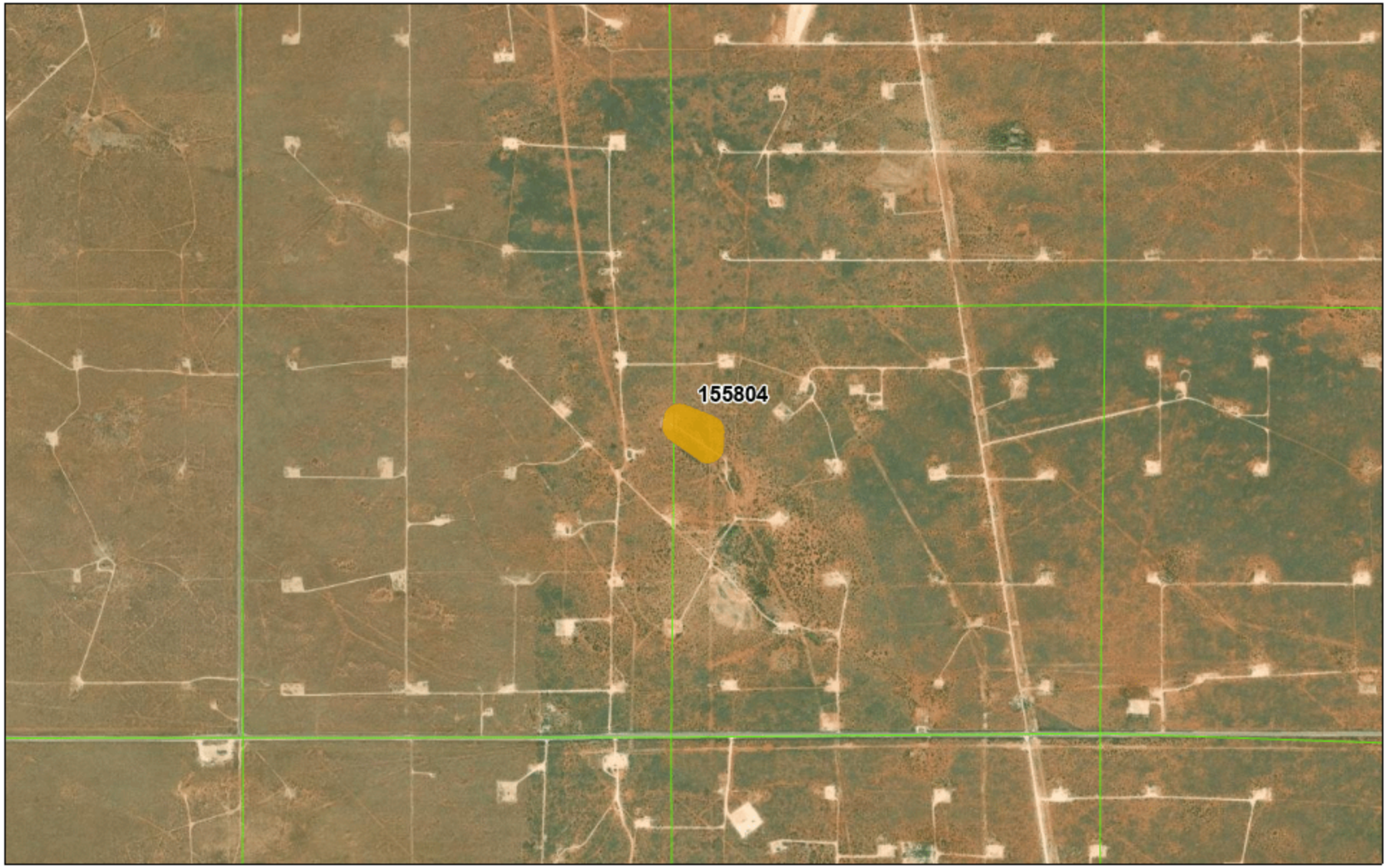
1:5,079

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

Maxar

NMCRIS No: 155804



6/10/2024, 2:33:38 PM

Archaeological Surveys

Proposed

1:24,000

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Maxar

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Methodology

Survey Field Methods

Intensity: 100% coverage

Configuration: ☑ Block Survey Units ☐ Linear Survey Units (l x y)

Other Survey Units

Scope: All Resources

Coverage Method: ☑ Systematic Pedestrian Coverage **Other Method:**

Survey Interval (m): 15 **Crew Size** 2

Fieldwork Dates **From** 31-May-2024 **To** 05-Jun-2024

Survey Person Hours: 4.00 **Recording Person Hours** 0.00

Additional Narrative: It was determined that the FAE II State A A/C 2 #065 accidental release project would be surveyed with a 200' (+/-) wide cultural buffer placed around the release area. The impact area for the proposed ROW is estimated to be 1.24 (+/-) acres. The cultural investigation was conducted by means of a pedestrian survey, with two field persons, walking at 15-meter intervals for 100% coverage of the survey area. This survey was designed to meet, but not limited to, all current professional standards for conducting cultural surveys in the State of New Mexico. The authority for these standards comes in part from Section 106 of the National Historic Preservation Act of 1966, the Antiquities Act of 1906 and the Historic Sites Act of 1935, along with all additional federal and state laws for preserving and protecting cultural resources.

Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.)

Environmental Setting: Topography: Low hills within a semi-arid desert environment
Vegetation: mesquite, broom-snake weed, and various other desert cacti, grasses, and forbs.
NRCS: Peyote-Maljamar-Kermit association: Gently undulating and rolling, deep, sandy soils

Physiographic Unit: Mescalero Plain
Aspect: 360 degrees
Elevation: 3555' – 3560'
Lithic Resources: Some cherts, in gravels, very sparse.
Water Sources: (Potential) various unnamed drainages bisecting the project area.
(Permanent) The Pecos River, 53 miles west of the proposed ROW.

Percent Ground Visibility

Ground Visibility: 76-99%

Condition of Survey Area: Grazed and bladed with various oilfield developments.

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Methodology

Attachments (check all appropriate boxes)

- [x] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)
- [x] Copy of NMCRIS Map Check (required)
- [ ] LA Site Forms - new sites (with sketch map & topographic map) if applicable
- [ ] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)
- [ ] Historic Cultural Property Inventory Forms, if applicable
- [ ] List and Description of Isolates, if applicable
- [ ] List and Description of Collections, if applicable

Other Attachments

- [x] Photographs and Log
- [x] Other attachments **Describe:** Pre-field Tables, Location Map from Client, & Land Patent

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

Cultural Resource Findings

Investigation Results

Archaeological Sites Discovered and Registered:	0
Archaeological Sites Discovered and NOT Registered:	0
Previously Recorded Archaeological Sites Revisited (site update form required):	0
Previously Recorded Archaeological Sites Not Relocated (site update form required):	0
Total Archaeological Sites (visited & recorded):	0
Total Isolates Recorded:	0
	☑ Non-Selective Isolate Recording
HCPI Properties Discovered and Registered:	0
HCPI Properties Discovered And NOT Registered:	0
Previously Recorded HCPI Properties Revisited:	0
Previously Recorded HCPI Properties NOT Relocated:	0
Total HCPI Properties (visited & recorded, including acequias):	0

If No Cultural Resources Found, Discuss Why: No, the area may not have offered natural resources for indigenous cultural groups to exploit.

Management Summary

Summary: The survey located no cultural materials in the project area for the State A A/C 2 #065 accidental release for FAE II Operating, LLC represented by Crain Environmental. These findings allow for archaeological clearance to be recommended for clean-up and remediation efforts as the project is currently designed. If cultural materials are encountered, at any time, all work should cease and the project archeologist or a New Mexico State Land Office staff archaeologist should be notified immediately.

Report run on: Jun 10, 2024 02:36 PM

NMCRIS Investigation Abstract Form (NIAF)

NMCRIS Activity Number: 155804 **HPD Log No(s).**

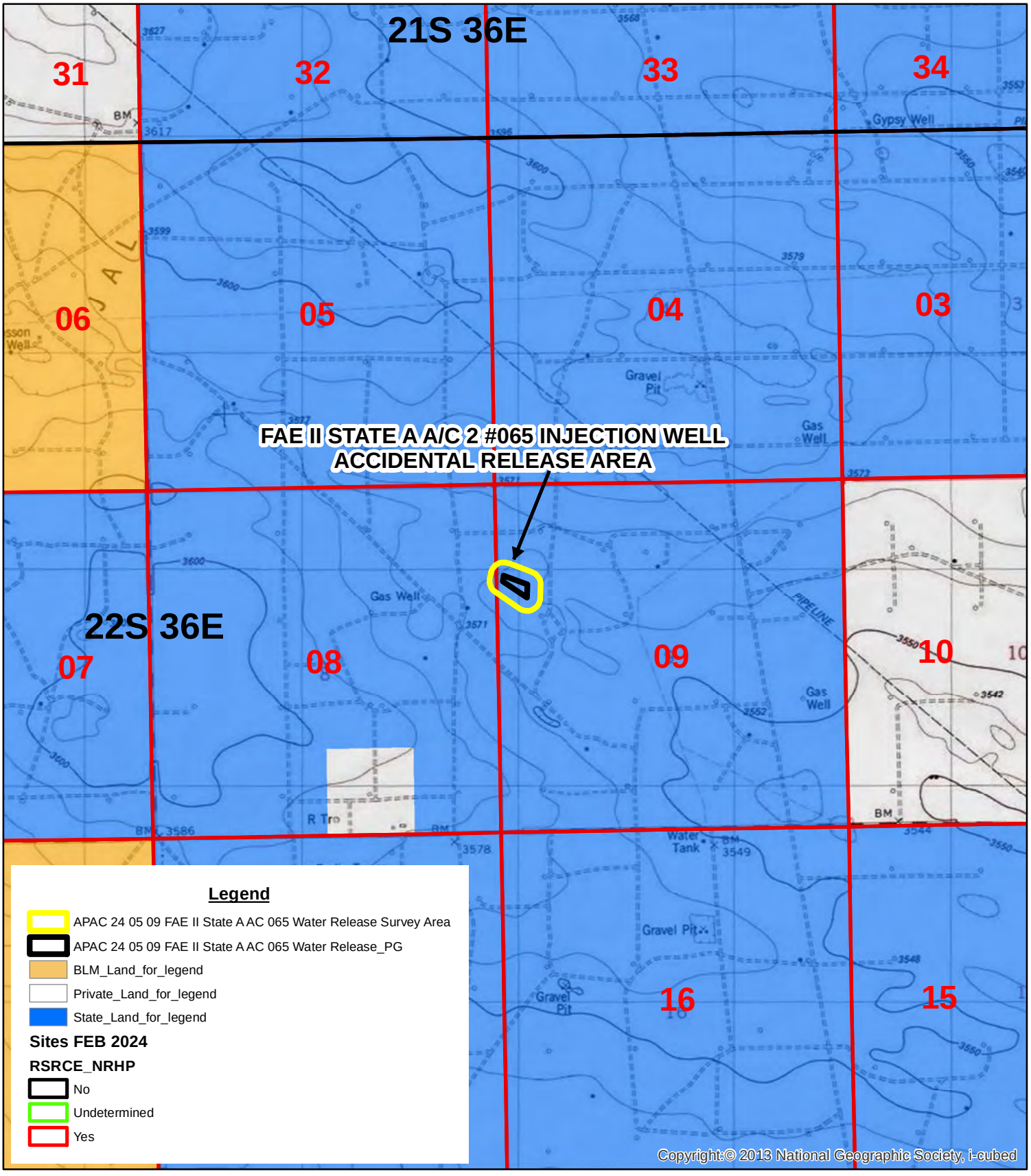
Attachments

Documents

Attachment Type	Description	Name	File Type	Upload Date	Upload By

Project Map
APAC 24-05-09

Scale 1:24,000



0 0.25 0.5 0.75 1 Miles

0 0.25 0.5 0.75 1 Kilometers

A location map for the FAE II State A A/C 2 #065 Injection Well Accidental Release Area for Crain Environmental
Located in section 9 in T 22S R 36E ; Lea County, New Mexico
Map Reference; OIL CENTER, NM (1984) 32103-D4

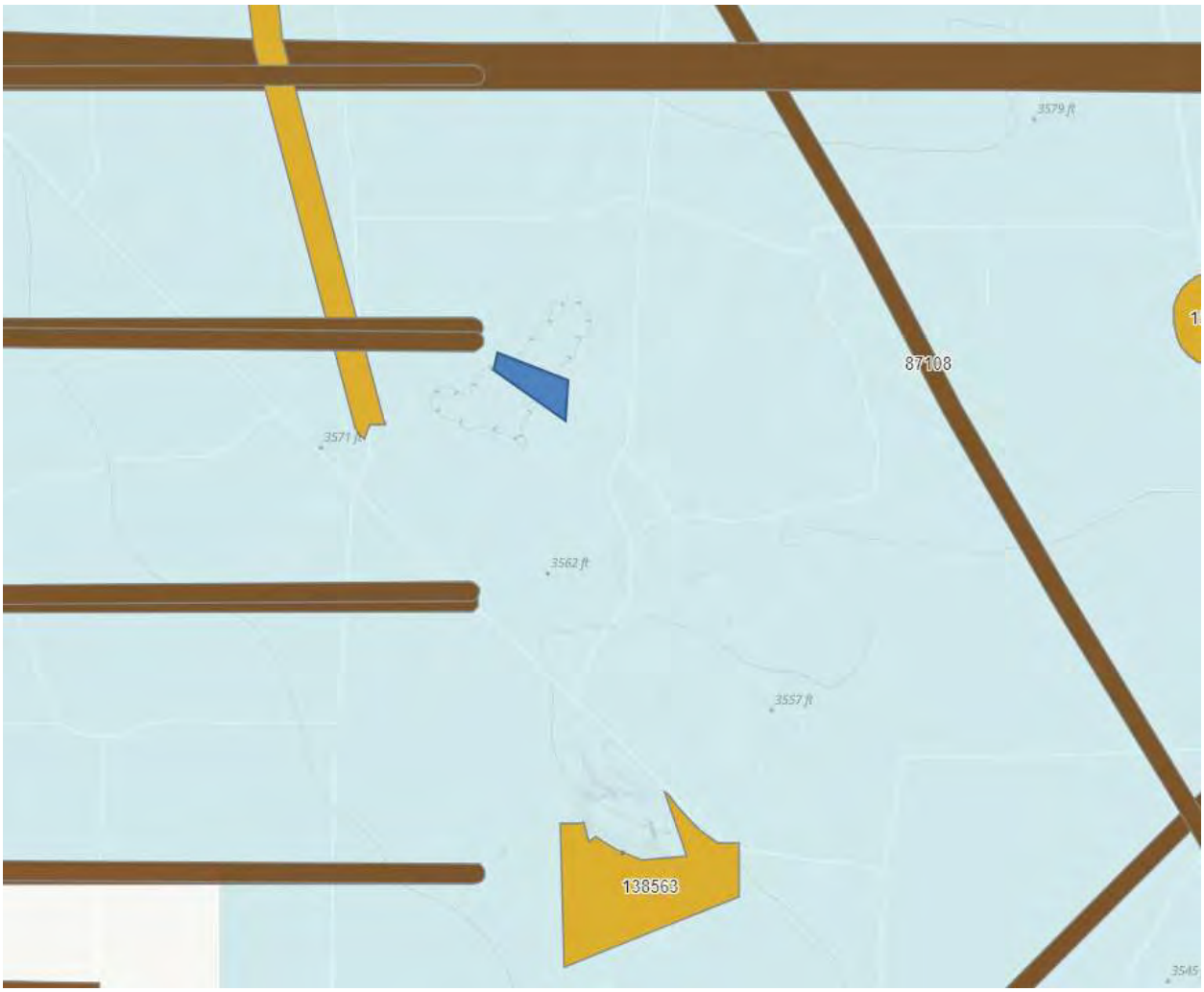
Table #1 Cultural Resources within 1,000 meters of the Project Area:

LA: #	Eligibility	Occupation	Affiliation	Distance
NO CULTURAL SITES FOUND WITHIN 1,000 METERS				

Table #2 Cultural Surveys within the Project Area:

NMCRIS #	Type	Arch	Completion Date
NO CULTURAL SURVEYS WITHIN THE PROJECT AREA			

APAC 24-05-09 ARMS Map



LEGEND:	**Figure 2**		
	ARC Survey Area	Drafted by: CC | Checked by: CC	
		Draft: May 22, 2024	
	FAE II Operating, LLC	GPS: 32.409315° -103.277464°	
	State A A/C 2 #65 Injection Well		
Base Map From GoogleEarth Pro	Lea County, New Mexico		

Land Patent Details

Accession Nr: NMR 0029989 **Document Type:** Serial Patent **State:** New Mexico **Issue Date:** 10/22/1927 **Cancelled:** No

Names On Document

P NEW MEXICO STATE OF	
Military Rank:	---

Miscellaneous Information

Land Office:	Roswell
US Reservations:	Yes
Mineral Reservations:	No
Tribe:	---
Militia:	---
State In Favor Of:	---
Authority:	June 20, 1910: New Mexico Enabling Act (36 Stat. 557)

Document Numbers

Document Nr:	---
Misc. Doc. Nr:	---
BLM Serial Nr:	NMR 0029989
Indian Allot. Nr:	---

Survey Information

Total Acres:	320.00
Survey Date:	---
Geographic Name:	---
Metes/Bounds:	No

Land Descriptions

State	Meridian	Twp - Rng	Aliquots	Section	Survey #	County
NM	New Mexico PM	022S - 036E	N½	9		Lea

Photo Log

Project#: APAC __24-05-09__
NMCRIS #: _155804_____

Frame	Direction	Subject	Photographer	Note
1	North	Project Overview	Jeffrey Pangburn	
2	East	Project Overview	Jeffrey Pangburn	
3	Southeast	Project Overview	Jeffrey Pangburn	

APAC 24-05-09 NMCRIS # 155804 Frame 1 POV North

APAC 24-05-09 NMCRIS # 155804 Frame 2 POV East

APAC 24-05-09 NMCRIS # 155804 Frame 3 POV Southeast

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 362795

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2327749668**
Incident Name	**NAPP2327749668 STATE A A/C 1 #065 INJECTION WELL @ 30-025-09394**
Incident Type	**Produced Water Release**
Incident Status	**Reclamation Report Received**
Incident Well	**[30-025-09394] STATE A A/C 1 #065**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	STATE A A/C 1 #065 INJECTION WELL
Date Release Discovered	10/02/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Injection | Produced Water | Released: 130 BBL | Recovered: 100 BBL | Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/10/2024

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QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	4670
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	88.4
GRO+DRO (EPA SW-846 Method 8015M)	88.4
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	05/07/2024
On what date will (or did) the final sampling or liner inspection occur	05/17/2024
On what date will (or was) the remediation complete(d)	05/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	3600
What is the estimated volume (in cubic yards) that will be reclaimed	1464
What is the estimated surface area (in square feet) that will be remediated	3600
What is the estimated volume (in cubic yards) that will be remediated	1464
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: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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	MONUMENT SITE #15 (TNM-94-58) [fAB0000000056]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/10/2024
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: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**344498**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**05/17/2024**
What was the (estimated) number of samples that were to be gathered	**22**
What was the sampling surface area in square feet	**36000**

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	3600
What was the total volume (cubic yards) remediated	1464
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	3600
What was the total volume (in cubic yards) reclaimed	1464
Summarize any additional remediation activities not included by answers (above)	None

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.

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QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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	3600
What was the total volume of replacement material (in cubic yards) for this site	1500
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)	09/23/2024
Summarize any additional reclamation activities not included by answers (above)	None
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.	
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QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	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

Action 362795

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 362795
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	8/8/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/8/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	8/8/2024