

Released Volume Calculation

Length 40 feet

Width 40 feet

Thickness 0.5 in

800 gal = 19 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 800 gallons (US, dry)

19 Bbls



Site Characterization Report and Remediation Workplan

April 30, 2025

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

Prepared For:

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

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.



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Appendix B – Biological Desktop Review
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1.0 Introduction

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

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

2.0 Background

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

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

This Site Characterization Report and Remediation Workplan has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) and is being submitted for Incident #s nSAP0225252743 and nAPP2511834534.

3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.



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

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

3.1 Groundwater Evaluation

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

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 20 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded. Figure 3 provides a USFWS map. According to the Bureau of Land Management (BLM) karst potential map, the Site is located within a "low karst potential" area. Figure 4 provides a karst potential map. Appendix A provides a copy of the NMOSE Point of Diversion Summary for well CO 00761 POD 1. Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site.

As the Riverine is located approximately 20 feet from the southwest corner of the Site, the most stringent Closure Criteria will be applicable to the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial map (Figure 3).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.



-
- o 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.
 - o 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.
 - o 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.
 - o Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
 - Within the area overlying a subsurface mine.
 - o Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

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

3.4 Closure Criteria Applicable to the Site

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well located within a 0.5-mile radius of the Site (CP 00761 POD 1) and no depth to groundwater is provided. Appendix A provides a copy of the NMOSE Point of Diversion Summary. Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site.

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 20 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded. Figure 3 provides a USFWS map. According to the Bureau of Land Management (BLM) karst potential map, the Site is located within a "low karst potential" area. Figure 4 provides a karst potential map.

As the Riverine is located approximately 20 feet from the southwest corner of the Site, the most stringent Closure Criteria will be applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.



NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figure 5.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater is thought to be greater than 50' bgs; however a Riverine is located approximately 20 feet from the southwest corner of the Site. The assumed depth to groundwater will be less than 50' bgs.

4.3 Wellhead Protection Area

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

4.4 Distance to Nearest Significant Watercourse

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



4.5 Investigation Results

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

On March 18, 2025, test holes were dug at 12 locations (TH-1 to TH-12) as approved in the Remediation/Reclamation Workplan, and soil samples were collected at depth of 1', 2', 3', and 4.1' bgs at each location. At test hole TH-12, samples were also collected at depths of 6' and 8' bgs. All samples from each test hole were field tested for chloride concentrations, and concentrations in each sample were recorded below 600 milligrams per kilogram (mg/kg).

All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas. Samples from each test hole at depths of 1' and 4.1' bgs, plus samples from test hole TH-12 at depths of 6' and 8' were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chlorides by EPA Method 300.0. Samples from each test hole at depths of 2' and 3' were held pending sample results.

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

Referring to Table 1, concentrations of benzene, total BTEX, and chlorides were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in samples collected from test holes TH-4 at 1' bgs (336 mg/kg), TH-5 at 1' (5,620 mg/kg) and 4.1' (105 mg/kg), TH-6 at 1' (505 mg/kg), TH-11 at 1' (1,370 mg/kg) and 4.1' (3,050 mg/kg), and TH-12 at 1' (14,100 mg/kg), 4.1' (6,520 mg/kg), and 6' (1,320 mg/kg).

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Number 880-55872-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix B.

5.0 Proposed Remediation Activities

The State J 2 #017 well was plugged and abandoned in April of 2025; however, the tank battery and ancillary equipment will continue to be used for other SWR wells.



SWR proposes to excavate impacted soil encompassing test hole locations TH-4, TH-5, TH-6, TH-11, and TH-12 until five-point confirmation samples collected from the bottom and sidewalls of the excavation(s) report TPH, BTEX, and chloride concentrations below the NMOCD Closure Criteria (i.e., complete horizontal and vertical delineation will be completed during remediation). Each confirmation sample will be representative of no more than 200 square feet.

It is estimated that the excavation encompassing sample points TH-4 and TH-6 will extend to a depth of approximately 2' bgs, the excavation around sample point TH-5 will extend to a depth of approximately 4.5' bgs, and the excavation at the storage tanks (sample points TH-11 and TH-12) will extend to a depth of approximately 7.5' bgs.

All excavated soil will be disposed of at an NMOCD approved disposal facility. The remediation area covers a surface area of approximately 5,550 square feet, and it is estimated that approximately 1,090 cubic yards of soil will be hauled to disposal.

Upon receipt of laboratory results that all TPH, BTEX, and chloride concentrations are reported below the Closure Criteria, a Remediation Summary and Closure Report for Incident # nSAP02252743 and Incident #nAPP2511834534 will be submitted to the NMOCD and ECO. The Closure Reports will include photographs of the excavations, laboratory results with chain-of-custody documentation, and a scaled map of the excavations.

Upon NMOCD and ECO approval of the Closure Reports, the excavation(s) will be backfilled to grade with non-impacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

6.0 Schedule of Implementation

SWR proposes to begin remediation activities within 30 days of NMOCD and ECO approval of this Site Characterization Report and Remediation Workplan. The ECO will be notified at least 2 business days prior to the start of remediation activities, and sample notifications will be provided to ECO and NMOCD at least 2 business days prior to sample collection(s).

Remediation activities are anticipated to be completed within 90 days of initiation, and a Remediation Summary and Closure Report for Incident # nSAP02252743 and #nAPP2511834534 will be submitted to the NMOCD and ECO within 30 days of receiving the laboratory results of final confirmation samples.



7.0 Distribution

Copy 1: Environmental Compliance Office
ECO@nmslo.gov



TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017

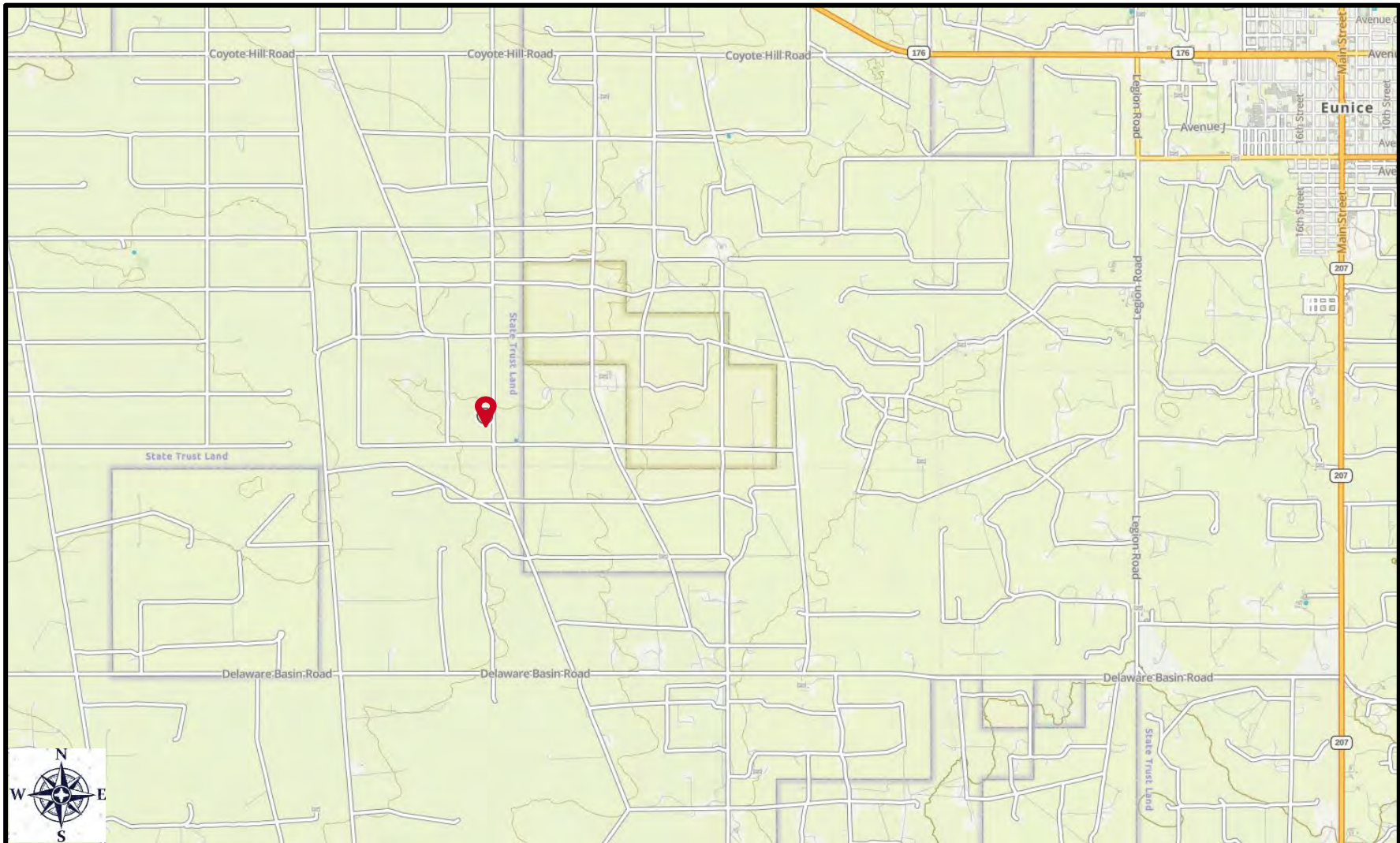
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
TH-1 (1')	03/18/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	186 F1
TH-1 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	17.5
TH-2 (1')	03/18/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	121
TH-2 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	103
TH-3 (1')	03/18/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	83.5
TH-3 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	190
TH-4 (1')	03/18/25	1'	In Situ	<14.5	336 *1	<15.1	336	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	81.8
TH-4 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	75.2
TH-5 (1')	03/18/25	1'	In Situ	<14.5	5,620 *1	<15.1	5,620	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	150
TH-5 (4.1')	03/18/25	4.1'	In Situ	<14.4	105 *1	<15.0	105	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	116
TH-6 (1')	03/18/25	1'	In Situ	<14.5	505 *1	<15.1	505	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	67.1
TH-6 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	161
TH-7 (1')	03/18/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	138
TH-7 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	115
TH-8 (1')	03/18/25	1'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	71.2
TH-8 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	64.8
TH-9 (1')	03/18/25	1'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	388
TH-9 (4.1')	03/18/25	4.1'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	203
TH-10 (1')	03/18/25	1'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	109
TH-10 (4.1')	03/18/25	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	311
TH-11 (1')	03/18/25	1'	In Situ	<14.5	1,370	<15.1	1,370	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	89.4
TH-11 (4.1')	03/18/25	4.1'	In Situ	40.3 J	3,010	<15.0	3,050	<0.00139	<0.00199	<0.00108	0.278	0.278	135
TH-12 (1')	03/18/25	1'	In Situ	<288	14,100	<300	14,100	<0.00138	<0.00199	<0.00108	0.0314 J	0.0314 J	237
TH-12 (4.1')	03/18/25	4.1'	In Situ	365 J	6,150	<302	6,520	<0.0690	<0.0992	<0.0540	1.07	1.07	465
TH-12 (6')	03/18/25	6'	In Situ	94.6	1,230	<15.1	1,320	<0.0689	<0.0990	0.151	0.425	0.576	325
TH-12 (8')	03/18/25	8'	In Situ	<14.5	24.8 J	<15.1	24.8 J	<0.0347	<0.0499	<0.0272	<0.0570	<0.0570	216 F1

- Notes:
- GRO: Gasoline Range Organics
 - DRO: Diesel Range Organics
 - MRO: Motor Oil Range Organics
 - : No NMOCD Closure Criteria established.
 - bgs: Below Ground Surface
 - Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
 - < indicates the COC was below the appropriate laboratory method/sample detection limit.
 - Bold and yellow** highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
 - J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - F1: MS and/or MSD recovery exceeds control limits.
 - *1: LCS/LCSD RPD exceeds control limits.

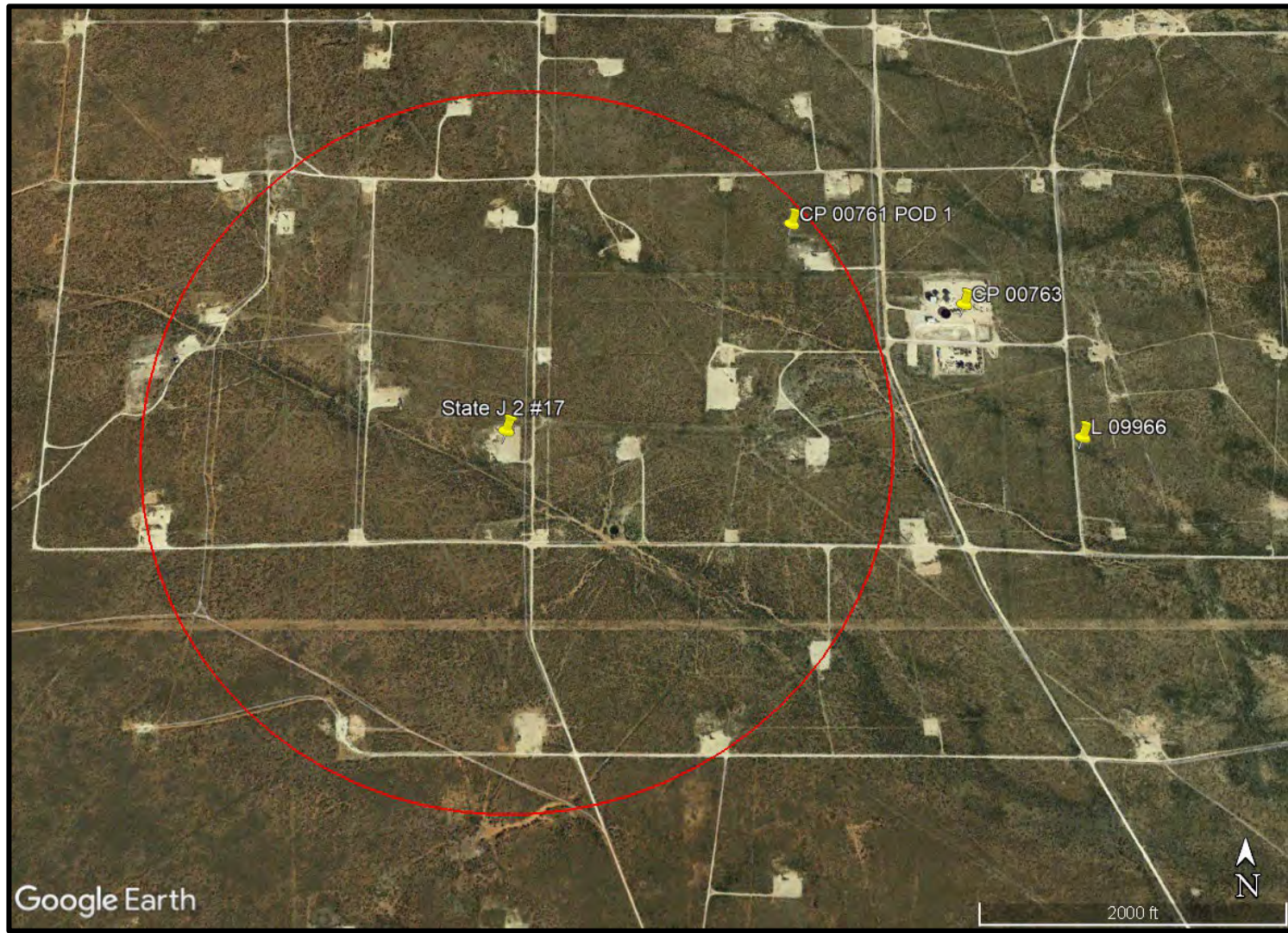
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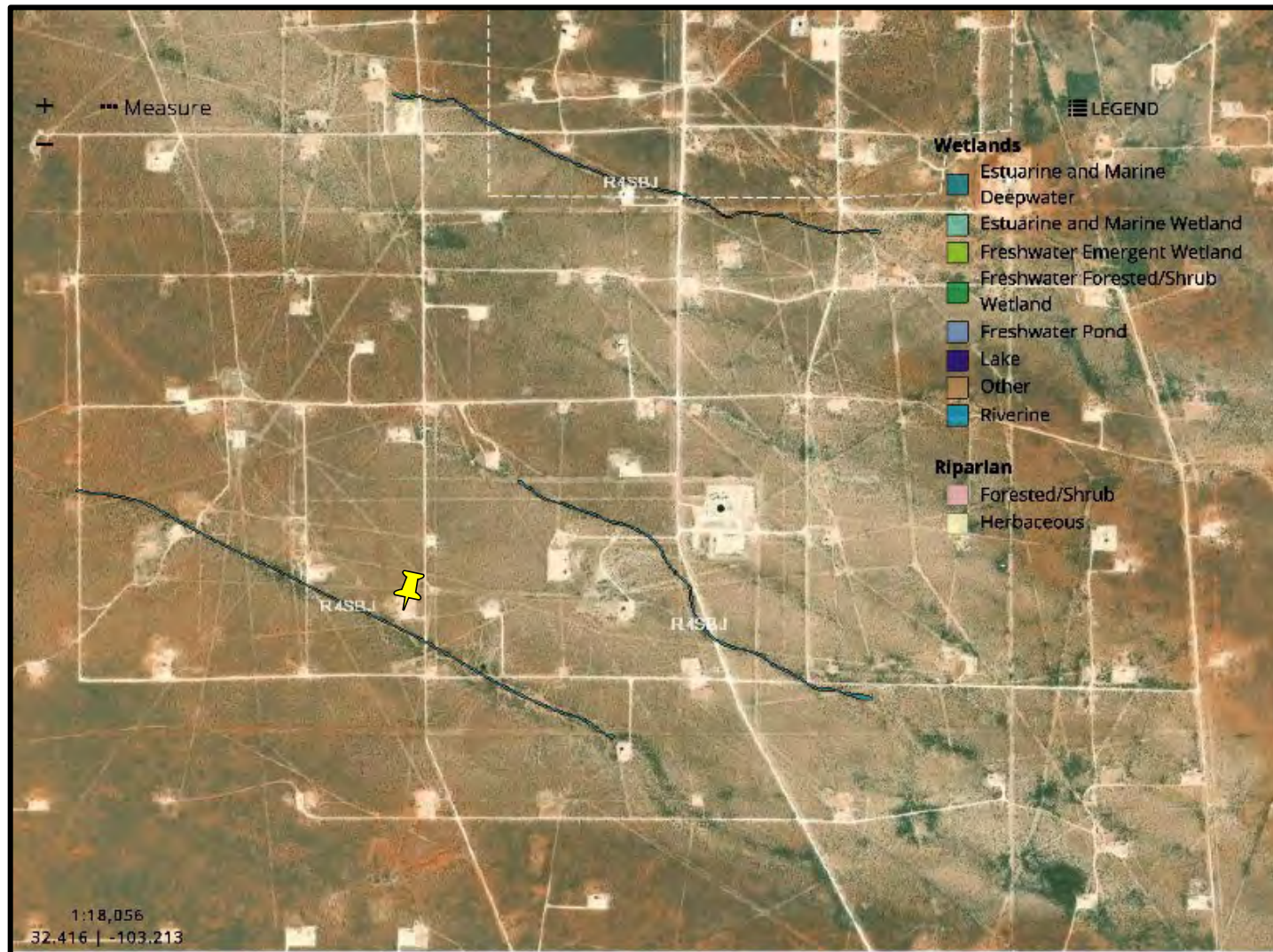
FIGURES



LEGEND:  Site Location	Figure 1 Site Location Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: Feb. 6, 2025	
		GPS: 32.4172592° -103.2306595°	
		Base Map from GAIA Topo	



LEGEND:  Site and Water Well Locations  0.5-Mile Radius Base map from Google Earth Pro	Figure 2 Wellhead Protection Area Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: April 6, 2025	
		GPS: 32.4172592° -103.2306595°	

**LEGEND:**

Site Location

Base map from US Fish & Wildlife Service

Figure 3**National Wetland Inventory Map**

Southwest Royalties, Inc.

State J 2 #017

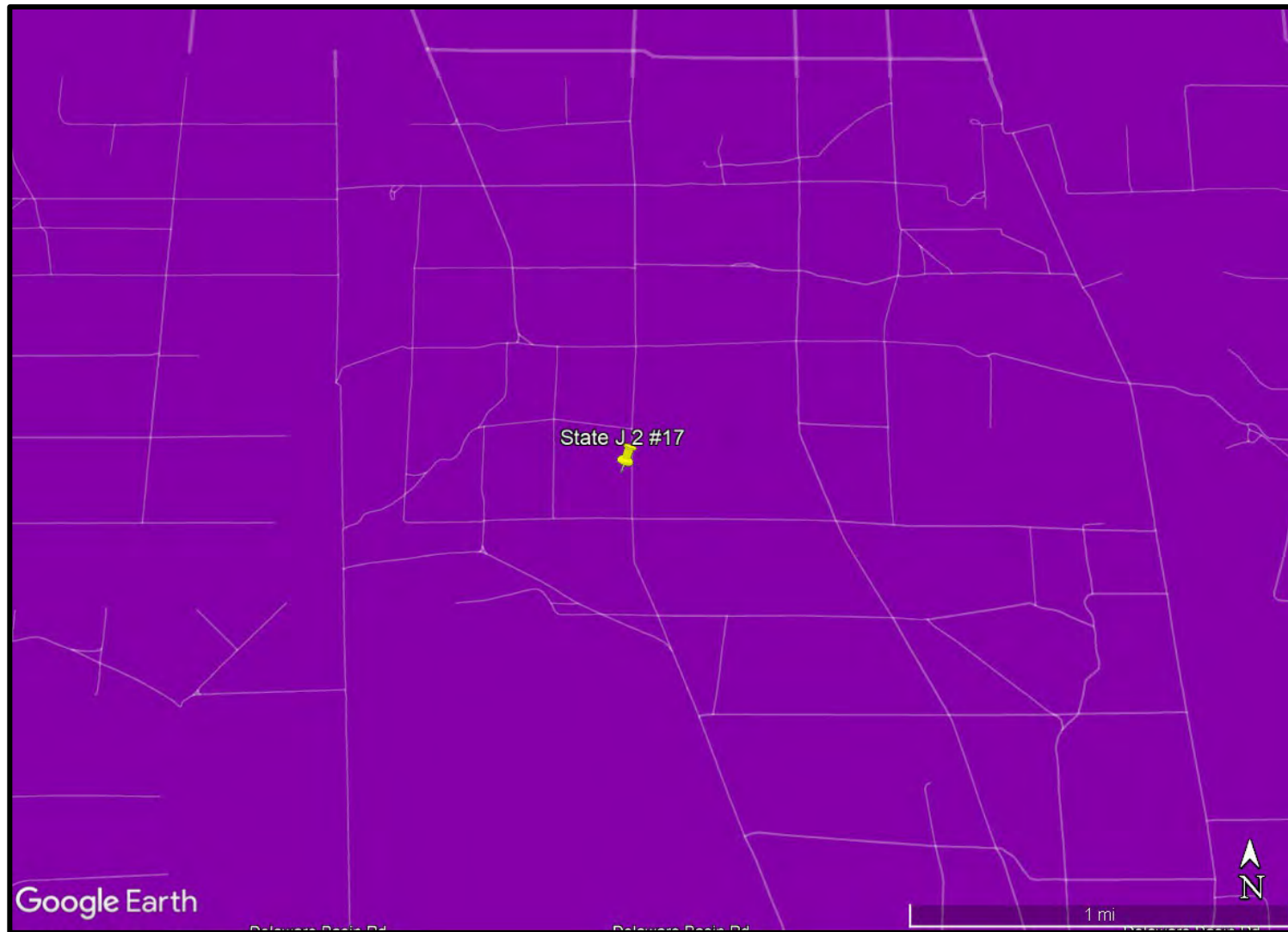
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°



**LEGEND:**

	Low Karst Potential
	Medium Karst Potential
	High Karst Potential

Base map from Google Earth Pro and BLM

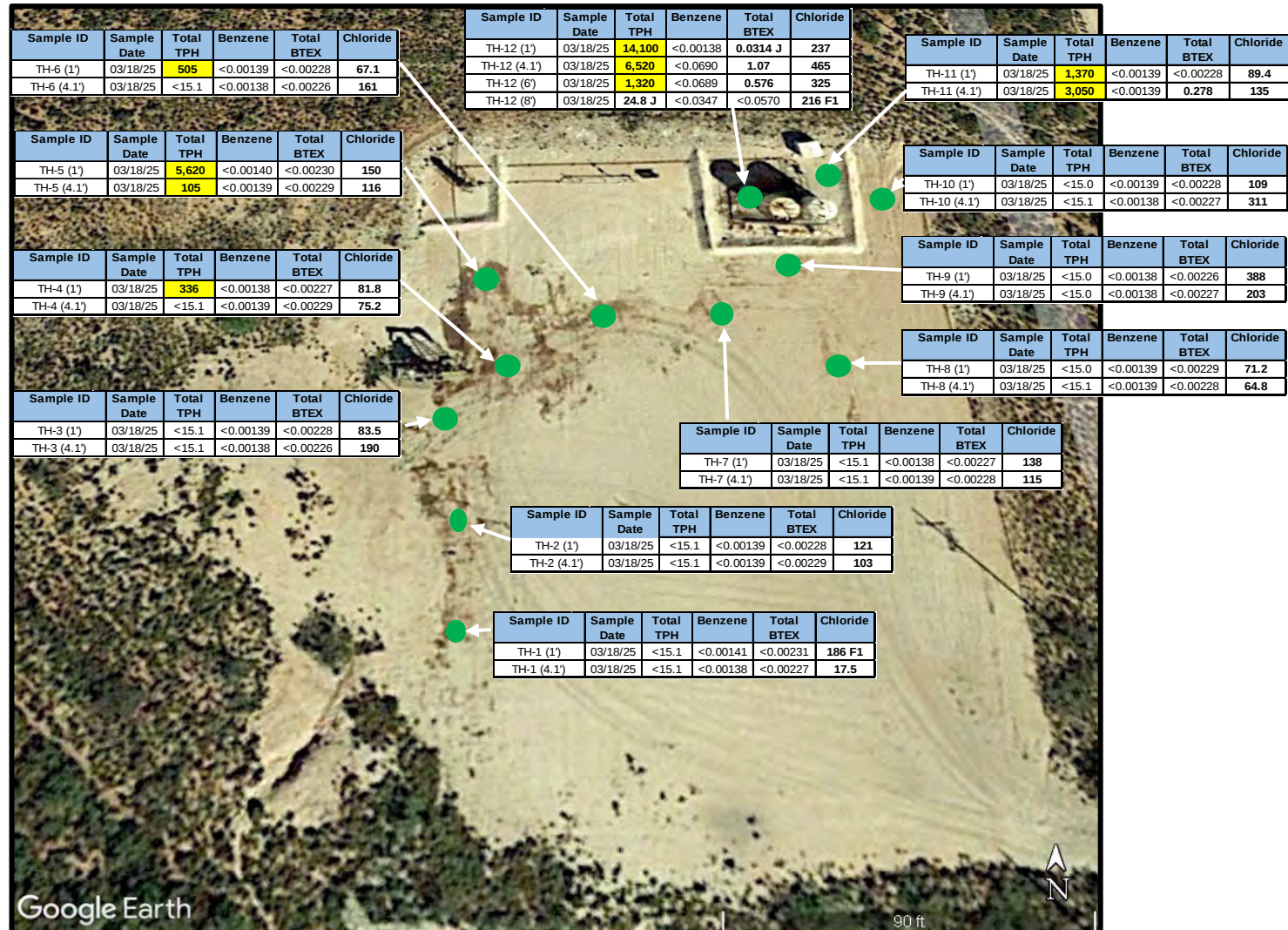
Figure 4
Karst Potential Map
Southwest Royalties, Inc.
State J 2 #017
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°



**LEGEND:**

Sample Location with Concentrations (mg/kg).



Highlight Indicates Concentration Above Closure Criteria.

Figure 5**Sample Location Map**

Southwest Royalties, Inc.

State J 2 #017

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 6, 2025

GPS: 32.4172592° -103.2306595°

Base Map from Google Earth (2017)





Appendix A: NMOSE Point of Diversion Summary

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest
NAD83 UTM in meters

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

* UTM location was derived from PLSS - see Help

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

Water Bearing Stratifications:

Top	Bottom	Description
4080	5000	Limestone/Dolomite/Chalk

Meter Information

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

Meter Readings (in Acre-Feet)

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

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

YTD Meter Amounts:

Year	Amount
2005	0.000
2006	0.000
2014	0.000

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



Appendix B: Biological Desktop Review

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

PROJECT SUMMARY

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

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



Counties: Lea County, New Mexico

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

BIRDS

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

INSECTS

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

CRITICAL HABITATS

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

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



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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain
Crain Environmental
2925 E. 17th St.
Odessa, Texas 79761
Generated 3/28/2025 9:09:25 AM

JOB DESCRIPTION

State J 2 #17
Lea Co, NM

JOB NUMBER

880-55872-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/28/2025 9:09:25 AM

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

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

Laboratory Job ID: 880-55872-1
SDG: Lea Co, NM

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Definitions/Glossary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-55872-1

Job ID: 880-55872-1

Eurofins Midland

Job Narrative
880-55872-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/20/2025 4:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-105767 and analytical batch 880-105769 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following samples were diluted due to <physical characteristics>, such as color, odor, appearance, viscosity, etc.>: TH-11 (1') (880-55872-21), TH-11 (4.1') (880-55872-22), TH-12 (1') (880-55872-23), TH-12 (4.1') (880-55872-24), TH-12 (6') (880-55872-25) and TH-12 (8') (880-55872-26). Elevated reporting limits (RL) are provided.

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 880-105762/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-55872-A-1-E MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TH-5 (1') (880-55872-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-105762 and analytical batch 880-105738 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TH-11 (4.1') (880-55872-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TH-8 (1') (880-55872-15), TH-8 (4.1') (880-55872-16), TH-9 (1') (880-55872-17), TH-9 (4.1') (880-55872-18), TH-10 (1') (880-55872-19), TH-10 (4.1') (880-55872-20), TH-11 (1') (880-55872-21), TH-12 (6') (880-55872-25), (LCS 880-105765/2-A), (LCSD 880-105765/3-A), (880-55872-A-14-C MS) and (880-55872-A-14-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TH-7 (4.1') (880-55872-14). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TH-12 (1') (880-55872-23) and TH-12 (4.1') (880-55872-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Eurofins Midland

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-55872-1

Job ID: 880-55872-1 (Continued)**Eurofins Midland****HPLC/IC**

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105780 and analytical batch 880-105791 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TH-11 (1') (880-55872-21), TH-11 (4.1') (880-55872-22), TH-12 (1') (880-55872-23), TH-12 (4.1') (880-55872-24) and TH-12 (6') (880-55872-25).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105780 and analytical batch 880-105791 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TH-12 (8') (880-55872-26), (880-55872-A-26-D MS) and (880-55872-A-26-E MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105761 and analytical batch 880-105770 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: TH-1 (1') (880-55872-1), TH-1 (4.1') (880-55872-2), TH-2 (1') (880-55872-3), TH-2 (4.1') (880-55872-4), TH-3 (1') (880-55872-5), TH-3 (4.1') (880-55872-6), TH-4 (1') (880-55872-7), TH-4 (4.1') (880-55872-8), TH-5 (1') (880-55872-9), TH-5 (4.1') (880-55872-10), (880-55872-A-1-B MS) and (880-55872-A-1-C MSD).

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

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-55872-1

Date Collected: 03/18/25 10:30

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg	-	03/21/25 12:23	03/22/25 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/25 12:23	03/22/25 02:45	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/21/25 12:23	03/22/25 02:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg	-		03/22/25 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg	-		03/22/25 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg	-	03/21/25 11:26	03/22/25 01:56	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.0	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 01:56	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	03/21/25 11:26	03/22/25 01:56	1
o-Terphenyl	111		70 - 130	03/21/25 11:26	03/22/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186	F1	10.1	0.398	mg/Kg	-		03/21/25 18:07	1

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-55872-2

Date Collected: 03/18/25 10:45

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg	-	03/21/25 12:23	03/22/25 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/21/25 12:23	03/22/25 03:05	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/21/25 12:23	03/22/25 03:05	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-55872-2

Date Collected: 03/18/25 10:45

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/22/25 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/22/25 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 02:45	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 02:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/21/25 11:26	03/22/25 02:45	1
o-Terphenyl	111		70 - 130				03/21/25 11:26	03/22/25 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.5		10.1	0.399	mg/Kg			03/21/25 18:24	1

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-55872-3

Date Collected: 03/18/25 11:00

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/21/25 12:23	03/22/25 03:26	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/21/25 12:23	03/22/25 03:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/22/25 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	49.9	14.5	mg/Kg		03/21/25 11:26	03/22/25 03:01	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	49.9	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:01	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-55872-3

Date Collected: 03/18/25 11:00

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				03/21/25 11:26	03/22/25 03:01	1
o-Terphenyl	117		70 - 130				03/21/25 11:26	03/22/25 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		9.96	0.393	mg/Kg			03/21/25 18:30	1

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-55872-4

Date Collected: 03/18/25 11:15

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 12:23	03/22/25 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/21/25 12:23	03/22/25 03:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/21/25 12:23	03/22/25 03:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/22/25 03:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/22/25 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 03:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				03/21/25 11:26	03/22/25 03:17	1
o-Terphenyl	113		70 - 130				03/21/25 11:26	03/22/25 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		9.92	0.392	mg/Kg			03/21/25 18:36	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-55872-5

Date Collected: 03/18/25 11:30

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 04:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 04:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 04:07	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 04:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 04:07	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/21/25 12:23	03/22/25 04:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/21/25 12:23	03/22/25 04:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 04:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/22/25 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	49.8	14.5	mg/Kg		03/21/25 11:26	03/22/25 03:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	49.8	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	03/21/25 11:26	03/22/25 03:34	1
o-Terphenyl	115		70 - 130	03/21/25 11:26	03/22/25 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		10.0	0.396	mg/Kg			03/21/25 18:41	1

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-55872-6

Date Collected: 03/18/25 11:45

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/21/25 12:23	03/22/25 04:27	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 12:23	03/22/25 04:27	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 12:23	03/22/25 04:27	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 04:27	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 12:23	03/22/25 04:27	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/21/25 12:23	03/22/25 04:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/21/25 12:23	03/22/25 04:27	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-55872-6

Date Collected: 03/18/25 11:45

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/22/25 04:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/22/25 03:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 03:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/21/25 11:26	03/22/25 03:49	1
o-Terphenyl	121		70 - 130				03/21/25 11:26	03/22/25 03:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		9.94	0.393	mg/Kg			03/21/25 18:59	1

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-55872-7

Date Collected: 03/18/25 12:00

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 04:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/21/25 12:23	03/22/25 04:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/21/25 12:23	03/22/25 04:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/22/25 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	336		50.0	15.1	mg/Kg			03/22/25 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 04:05	1
Diesel Range Organics (Over C10-C28)	336	*1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 04:05	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-55872-7

Date Collected: 03/18/25 12:00

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<15.1	U	50.0	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				03/21/25 11:26	03/22/25 04:05	1
o-Terphenyl	119		70 - 130				03/21/25 11:26	03/22/25 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.8		9.96	0.393	mg/Kg	-		03/21/25 19:04	1

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-55872-8

Date Collected: 03/18/25 12:15

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg	-	03/21/25 12:23	03/22/25 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/21/25 12:23	03/22/25 05:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 12:23	03/22/25 05:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg	-		03/22/25 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg	-		03/22/25 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	49.9	14.5	mg/Kg	-	03/21/25 11:26	03/22/25 04:22	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	49.9	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 04:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				03/21/25 11:26	03/22/25 04:22	1
o-Terphenyl	120		70 - 130				03/21/25 11:26	03/22/25 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.2		9.98	0.394	mg/Kg	-		03/21/25 19:10	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-55872-9

Date Collected: 03/18/25 12:30

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg	-	03/21/25 12:23	03/22/25 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/21/25 12:23	03/22/25 05:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/21/25 12:23	03/22/25 05:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg	-		03/22/25 05:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5620		49.9	15.1	mg/Kg	-		03/22/25 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	49.9	14.5	mg/Kg	-	03/21/25 11:26	03/22/25 04:37	1
Diesel Range Organics (Over C10-C28)	5620	*1	49.9	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 04:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg	-	03/21/25 11:26	03/22/25 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	03/21/25 11:26	03/22/25 04:37	1
o-Terphenyl	140	S1+	70 - 130	03/21/25 11:26	03/22/25 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.98	0.394	mg/Kg	-		03/21/25 19:16	1

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-55872-10

Date Collected: 03/18/25 12:45

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg	-	03/21/25 12:23	03/22/25 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/25 12:23	03/22/25 05:49	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/21/25 12:23	03/22/25 05:49	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-55872-10

Date Collected: 03/18/25 12:45

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/22/25 05:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	105		49.7	15.0	mg/Kg			03/22/25 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U *1	49.7	14.4	mg/Kg		03/21/25 11:26	03/22/25 04:54	1
Diesel Range Organics (Over C10-C28)	105	*1	49.7	15.0	mg/Kg		03/21/25 11:26	03/22/25 04:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:26	03/22/25 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				03/21/25 11:26	03/22/25 04:54	1
o-Terphenyl	124		70 - 130				03/21/25 11:26	03/22/25 04:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		10.1	0.398	mg/Kg			03/21/25 19:22	1

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-55872-11

Date Collected: 03/18/25 13:00

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		03/21/25 12:23	03/22/25 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/21/25 12:23	03/22/25 07:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 12:23	03/22/25 07:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			03/22/25 07:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	505		50.0	15.1	mg/Kg			03/22/25 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 05:26	1
Diesel Range Organics (Over C10-C28)	505	*1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:26	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-55872-11

Date Collected: 03/18/25 13:00

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/21/25 11:26	03/22/25 05:26	1
o-Terphenyl	118		70 - 130				03/21/25 11:26	03/22/25 05:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1		9.94	0.393	mg/Kg			03/21/25 19:27	1

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-55872-12

Date Collected: 03/18/25 13:15

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 07:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/21/25 12:23	03/22/25 07:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/21/25 12:23	03/22/25 07:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/22/25 07:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/22/25 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	50.0	14.5	mg/Kg		03/21/25 11:26	03/22/25 05:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/21/25 11:26	03/22/25 05:42	1
o-Terphenyl	117		70 - 130				03/21/25 11:26	03/22/25 05:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		10.0	0.397	mg/Kg			03/21/25 19:45	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-55872-13

Date Collected: 03/18/25 10:00

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/21/25 12:23	03/22/25 08:04	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 12:23	03/22/25 08:04	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 12:23	03/22/25 08:04	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 08:04	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 12:23	03/22/25 08:04	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/21/25 12:23	03/22/25 08:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/21/25 12:23	03/22/25 08:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/22/25 08:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/22/25 05:58	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	<14.5	U *1	49.8	14.5	mg/Kg		03/21/25 11:26	03/22/25 05:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U *1	49.8	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 11:26	03/22/25 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/21/25 11:26	03/22/25 05:58	1
o-Terphenyl	116		70 - 130	03/21/25 11:26	03/22/25 05:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		10.1	0.399	mg/Kg			03/21/25 19:50	1

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-55872-14

Date Collected: 03/18/25 10:15

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 08:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 08:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 08:24	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 08:24	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 08:24	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/21/25 12:23	03/22/25 08:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/21/25 12:23	03/22/25 08:24	1

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-55872-14

Date Collected: 03/18/25 10:15

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 08:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/22/25 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 11:44	03/22/25 01:56	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 11:44	03/22/25 01:56	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 11:44	03/22/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				03/21/25 11:44	03/22/25 01:56	1
o-Terphenyl	126		70 - 130				03/21/25 11:44	03/22/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		9.96	0.393	mg/Kg			03/21/25 20:08	1

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-55872-15

Date Collected: 03/18/25 09:05

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 12:23	03/22/25 08:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/21/25 12:23	03/22/25 08:45	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/21/25 12:23	03/22/25 08:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/22/25 08:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/22/25 02:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 11:44	03/22/25 02:45	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 11:44	03/22/25 02:45	1

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-55872-15

Date Collected: 03/18/25 09:05

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 11:44	03/22/25 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				03/21/25 11:44	03/22/25 02:45	1
o-Terphenyl	137	S1+	70 - 130				03/21/25 11:44	03/22/25 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2		9.98	0.394	mg/Kg			03/21/25 20:13	1

Client Sample ID: TH-8 (4.1')

Lab Sample ID: 880-55872-16

Date Collected: 03/18/25 09:20

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 09:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/21/25 12:23	03/22/25 09:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/21/25 12:23	03/22/25 09:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 09:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/22/25 03:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/21/25 11:44	03/22/25 03:01	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 11:44	03/22/25 03:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 11:44	03/22/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				03/21/25 11:44	03/22/25 03:01	1
o-Terphenyl	146	S1+	70 - 130				03/21/25 11:44	03/22/25 03:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.8		10.1	0.398	mg/Kg			03/21/25 20:19	1

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-55872-17

Date Collected: 03/18/25 09:30

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		03/21/25 12:23	03/22/25 09:26	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 12:23	03/22/25 09:26	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 12:23	03/22/25 09:26	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 09:26	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 12:23	03/22/25 09:26	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 12:23	03/22/25 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/21/25 12:23	03/22/25 09:26	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/21/25 12:23	03/22/25 09:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/22/25 09:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/22/25 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/21/25 11:44	03/22/25 03:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 03:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130	03/21/25 11:44	03/22/25 03:17	1
o-Terphenyl	137	S1+	70 - 130	03/21/25 11:44	03/22/25 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		10.0	0.395	mg/Kg			03/21/25 20:25	1

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-55872-18

Date Collected: 03/18/25 09:45

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		03/21/25 12:23	03/22/25 09:46	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 12:23	03/22/25 09:46	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 12:23	03/22/25 09:46	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 09:46	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 12:23	03/22/25 09:46	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 12:23	03/22/25 09:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/21/25 12:23	03/22/25 09:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/21/25 12:23	03/22/25 09:46	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-55872-18

Date Collected: 03/18/25 09:45

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/22/25 09:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/22/25 03:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/21/25 11:44	03/22/25 03:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 03:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				03/21/25 11:44	03/22/25 03:34	1
o-Terphenyl	139	S1+	70 - 130				03/21/25 11:44	03/22/25 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		9.92	0.392	mg/Kg			03/21/25 20:30	1

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-55872-19

Date Collected: 03/18/25 14:35

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 10:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 12:23	03/22/25 10:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/21/25 12:23	03/22/25 10:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/22/25 03:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 11:44	03/22/25 03:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 11:44	03/22/25 03:49	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-55872-19

Date Collected: 03/18/25 14:35

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<15.0	U	49.6	15.0	mg/Kg	-	03/21/25 11:44	03/22/25 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130				03/21/25 11:44	03/22/25 03:49	1
o-Terphenyl	137	S1+	70 - 130				03/21/25 11:44	03/22/25 03:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.0	0.397	mg/Kg	-		03/21/25 20:36	1

Client Sample ID: TH-10 (4.1')

Lab Sample ID: 880-55872-20

Date Collected: 03/18/25 14:50

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg	-	03/21/25 12:23	03/22/25 10:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 12:23	03/22/25 10:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/21/25 12:23	03/22/25 10:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg	-		03/22/25 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg	-		03/22/25 04:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg	-	03/21/25 11:44	03/22/25 04:05	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg	-	03/21/25 11:44	03/22/25 04:05	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg	-	03/21/25 11:44	03/22/25 04:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				03/21/25 11:44	03/22/25 04:05	1
o-Terphenyl	141	S1+	70 - 130				03/21/25 11:44	03/22/25 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		9.96	0.393	mg/Kg	-		03/21/25 20:42	1

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-55872-21

Date Collected: 03/18/25 14:05

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0139	U	0.0200	0.0139	mg/Kg		03/21/25 12:11	03/21/25 19:19	10
Toluene	<0.0200	U	0.0200	0.0200	mg/Kg		03/21/25 12:11	03/21/25 19:19	10
Ethylbenzene	<0.0109	U	0.0200	0.0109	mg/Kg		03/21/25 12:11	03/21/25 19:19	10
m-Xylene & p-Xylene	<0.0228	U	0.0399	0.0228	mg/Kg		03/21/25 12:11	03/21/25 19:19	10
o-Xylene	<0.0158	U	0.0200	0.0158	mg/Kg		03/21/25 12:11	03/21/25 19:19	10
Xylenes, Total	<0.0228	U	0.0399	0.0228	mg/Kg		03/21/25 12:11	03/21/25 19:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	03/21/25 12:11	03/21/25 19:19	10
1,4-Difluorobenzene (Surr)	90		70 - 130	03/21/25 12:11	03/21/25 19:19	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0228	U	0.0399	0.0228	mg/Kg			03/21/25 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1370		50.0	15.1	mg/Kg			03/22/25 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 11:44	03/22/25 04:22	1
Diesel Range Organics (Over C10-C28)	1370		50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 04:22	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	03/21/25 11:44	03/22/25 04:22	1
o-Terphenyl	144	S1+	70 - 130	03/21/25 11:44	03/22/25 04:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4		10.0	0.397	mg/Kg			03/21/25 21:11	1

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-55872-22

Date Collected: 03/18/25 14:20

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0139	U	0.0199	0.0139	mg/Kg		03/21/25 12:11	03/21/25 19:39	10
Toluene	<0.0199	U	0.0199	0.0199	mg/Kg		03/21/25 12:11	03/21/25 19:39	10
Ethylbenzene	<0.0108	U	0.0199	0.0108	mg/Kg		03/21/25 12:11	03/21/25 19:39	10
m-Xylene & p-Xylene	0.135		0.0398	0.0228	mg/Kg		03/21/25 12:11	03/21/25 19:39	10
o-Xylene	0.143		0.0199	0.0158	mg/Kg		03/21/25 12:11	03/21/25 19:39	10
Xylenes, Total	0.278		0.0398	0.0228	mg/Kg		03/21/25 12:11	03/21/25 19:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/21/25 12:11	03/21/25 19:39	10
1,4-Difluorobenzene (Surr)	93		70 - 130	03/21/25 12:11	03/21/25 19:39	10

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-55872-22

Date Collected: 03/18/25 14:20

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.278		0.0398	0.0228	mg/Kg			03/21/25 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3050		49.7	15.0	mg/Kg			03/22/25 04:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.3	J	49.7	14.4	mg/Kg		03/21/25 11:44	03/22/25 04:37	1
Diesel Range Organics (Over C10-C28)	3010		49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 04:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 11:44	03/22/25 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S1+	70 - 130				03/21/25 11:44	03/22/25 04:37	1
o-Terphenyl	168	S1+	70 - 130				03/21/25 11:44	03/22/25 04:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		10.1	0.399	mg/Kg			03/21/25 21:17	1

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-55872-23

Date Collected: 03/18/25 13:35

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0138	U	0.0199	0.0138	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
Toluene	<0.0199	U	0.0199	0.0199	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
Ethylbenzene	<0.0108	U	0.0199	0.0108	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
m-Xylene & p-Xylene	0.0314	J	0.0398	0.0227	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
o-Xylene	<0.0157	U	0.0199	0.0157	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
Xylenes, Total	0.0314	J	0.0398	0.0227	mg/Kg		03/21/25 12:11	03/21/25 20:00	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 12:11	03/21/25 20:00	10
1,4-Difluorobenzene (Surr)	89		70 - 130				03/21/25 12:11	03/21/25 20:00	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0314	J	0.0398	0.0227	mg/Kg			03/21/25 20:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14100		992	300	mg/Kg			03/25/25 13:05	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	<288	U	992	288	mg/Kg		03/25/25 07:32	03/25/25 13:05	20
Diesel Range Organics (Over C10-C28)	14100		992	300	mg/Kg		03/25/25 07:32	03/25/25 13:05	20

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-55872-23

Date Collected: 03/18/25 13:35

Matrix: Solid

Date Received: 03/20/25 16:43

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)	<300	U	992	300	mg/Kg		03/25/25 07:32	03/25/25 13:05	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	182	S1+	70 - 130				03/25/25 07:32	03/25/25 13:05	20
o-Terphenyl	308	S1+	70 - 130				03/25/25 07:32	03/25/25 13:05	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		9.96	0.393	mg/Kg			03/21/25 21:23	1

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-55872-24

Date Collected: 03/18/25 13:50

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0690	U	0.0992	0.0690	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
Toluene	<0.0992	U	0.0992	0.0992	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
Ethylbenzene	<0.0540	U	0.0992	0.0540	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
m-Xylene & p-Xylene	0.589		0.198	0.113	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
o-Xylene	0.477		0.0992	0.0786	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
Xylenes, Total	1.07		0.198	0.113	mg/Kg		03/21/25 12:11	03/21/25 20:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/21/25 12:11	03/21/25 20:20	50
1,4-Difluorobenzene (Surr)	87		70 - 130				03/21/25 12:11	03/21/25 20:20	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.07		0.198	0.113	mg/Kg			03/21/25 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6520		999	302	mg/Kg			03/25/25 13:21	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	365	J	999	290	mg/Kg		03/25/25 07:32	03/25/25 13:21	20
Diesel Range Organics (Over C10-C28)	6150		999	302	mg/Kg		03/25/25 07:32	03/25/25 13:21	20
Oil Range Organics (Over C28-C36)	<302	U	999	302	mg/Kg		03/25/25 07:32	03/25/25 13:21	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	175	S1+	70 - 130				03/25/25 07:32	03/25/25 13:21	20
o-Terphenyl	231	S1+	70 - 130				03/25/25 07:32	03/25/25 13:21	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		9.92	0.392	mg/Kg			03/21/25 21:29	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (6')

Lab Sample ID: 880-55872-25

Date Collected: 03/18/25 15:10

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0689	U	0.0990	0.0689	mg/Kg		03/21/25 12:11	03/21/25 20:40	50
Toluene	<0.0990	U	0.0990	0.0990	mg/Kg		03/21/25 12:11	03/21/25 20:40	50
Ethylbenzene	0.151		0.0990	0.0539	mg/Kg		03/21/25 12:11	03/21/25 20:40	50
m-Xylene & p-Xylene	0.227		0.198	0.113	mg/Kg		03/21/25 12:11	03/21/25 20:40	50
o-Xylene	0.198		0.0990	0.0784	mg/Kg		03/21/25 12:11	03/21/25 20:40	50
Xylenes, Total	0.425		0.198	0.113	mg/Kg		03/21/25 12:11	03/21/25 20:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/21/25 12:11	03/21/25 20:40	50
1,4-Difluorobenzene (Surr)	86		70 - 130	03/21/25 12:11	03/21/25 20:40	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.576		0.198	0.113	mg/Kg			03/21/25 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1320		50.0	15.1	mg/Kg			03/22/25 05:42	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	94.6		50.0	14.5	mg/Kg		03/21/25 11:44	03/22/25 05:42	1
Diesel Range Organics (Over C10-C28)	1230		50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 05:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	03/21/25 11:44	03/22/25 05:42	1
o-Terphenyl	140	S1+	70 - 130	03/21/25 11:44	03/22/25 05:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		9.98	0.394	mg/Kg			03/21/25 21:35	1

Client Sample ID: TH-12 (8')

Lab Sample ID: 880-55872-26

Date Collected: 03/18/25 15:20

Matrix: Solid

Date Received: 03/20/25 16:43

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0347	U	0.0499	0.0347	mg/Kg		03/21/25 12:11	03/21/25 21:01	25
Toluene	<0.0499	U	0.0499	0.0499	mg/Kg		03/21/25 12:11	03/21/25 21:01	25
Ethylbenzene	<0.0272	U	0.0499	0.0272	mg/Kg		03/21/25 12:11	03/21/25 21:01	25
m-Xylene & p-Xylene	<0.0570	U	0.0998	0.0570	mg/Kg		03/21/25 12:11	03/21/25 21:01	25
o-Xylene	<0.0395	U	0.0499	0.0395	mg/Kg		03/21/25 12:11	03/21/25 21:01	25
Xylenes, Total	<0.0570	U	0.0998	0.0570	mg/Kg		03/21/25 12:11	03/21/25 21:01	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	03/21/25 12:11	03/21/25 21:01	25
1,4-Difluorobenzene (Surr)	94		70 - 130	03/21/25 12:11	03/21/25 21:01	25

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Client Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (8')

Lab Sample ID: 880-55872-26

Date Collected: 03/18/25 15:20

Matrix: Solid

Date Received: 03/20/25 16:43

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0570	U	0.0998	0.0570	mg/Kg			03/21/25 21:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.8	J	50.0	15.1	mg/Kg			03/22/25 05:58	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	<14.5	U	50.0	14.5	mg/Kg		03/21/25 11:44	03/22/25 05:58	1
Diesel Range Organics (Over C10-C28)	24.8	J	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 05:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/21/25 11:44	03/22/25 05:58	1
o-Terphenyl	118		70 - 130				03/21/25 11:44	03/22/25 05:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216	F1	10.0	0.395	mg/Kg			03/21/25 21:40	1

Surrogate Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-18016-A-21-C MS	Matrix Spike	108	92
820-18016-A-21-D MSD	Matrix Spike Duplicate	98	92
880-55872-1	TH-1 (1')	100	92
880-55872-1 MS	TH-1 (1')	98	95
880-55872-1 MSD	TH-1 (1')	100	92
880-55872-2	TH-1 (4.1')	101	92
880-55872-3	TH-2 (1')	105	88
880-55872-4	TH-2 (4.1')	108	94
880-55872-5	TH-3 (1')	104	93
880-55872-6	TH-3 (4.1')	104	91
880-55872-7	TH-4 (1')	99	90
880-55872-8	TH-4 (4.1')	107	92
880-55872-9	TH-5 (1')	97	88
880-55872-10	TH-5 (4.1')	100	86
880-55872-11	TH-6 (1')	101	92
880-55872-12	TH-6 (4.1')	105	91
880-55872-13	TH-7 (1')	107	90
880-55872-14	TH-7 (4.1')	105	90
880-55872-15	TH-8 (1')	101	90
880-55872-16	TH-8 (4.1')	104	91
880-55872-17	TH-9 (1')	104	88
880-55872-18	TH-9 (4.1')	102	91
880-55872-19	TH-10 (1')	103	91
880-55872-20	TH-10 (4.1')	103	91
880-55872-21	TH-11 (1')	127	90
880-55872-22	TH-11 (4.1')	110	93
880-55872-23	TH-12 (1')	103	89
880-55872-24	TH-12 (4.1')	88	87
880-55872-25	TH-12 (6')	117	86
880-55872-26	TH-12 (8')	122	94
LCS 880-105766/1-A	Lab Control Sample	106	90
LCS 880-105767/1-A	Lab Control Sample	98	93
LCSD 880-105766/2-A	Lab Control Sample Dup	103	89
LCSD 880-105767/2-A	Lab Control Sample Dup	100	95
MB 880-105766/5-A	Method Blank	92	81
MB 880-105767/5-A	Method Blank	99	82
MB 880-105769/8	Method Blank	103	86

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-55872-1	TH-1 (1')	120	111
880-55872-1 MS	TH-1 (1')	142 S1+	125

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Surrogate Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55872-1 MSD	TH-1 (1')	119	125
880-55872-2	TH-1 (4.1')	119	111
880-55872-3	TH-2 (1')	125	117
880-55872-4	TH-2 (4.1')	116	113
880-55872-5	TH-3 (1')	125	115
880-55872-6	TH-3 (4.1')	124	121
880-55872-7	TH-4 (1')	123	119
880-55872-8	TH-4 (4.1')	121	120
880-55872-9	TH-5 (1')	127	140 S1+
880-55872-10	TH-5 (4.1')	125	124
880-55872-11	TH-6 (1')	119	118
880-55872-12	TH-6 (4.1')	117	117
880-55872-13	TH-7 (1')	119	116
880-55872-14	TH-7 (4.1')	134 S1+	126
880-55872-14 MS	TH-7 (4.1')	133 S1+	134 S1+
880-55872-14 MSD	TH-7 (4.1')	132 S1+	133 S1+
880-55872-15	TH-8 (1')	147 S1+	137 S1+
880-55872-16	TH-8 (4.1')	151 S1+	146 S1+
880-55872-17	TH-9 (1')	144 S1+	137 S1+
880-55872-18	TH-9 (4.1')	143 S1+	139 S1+
880-55872-19	TH-10 (1')	141 S1+	137 S1+
880-55872-20	TH-10 (4.1')	145 S1+	141 S1+
880-55872-21	TH-11 (1')	140 S1+	144 S1+
880-55872-22	TH-11 (4.1')	151 S1+	168 S1+
880-55872-23	TH-12 (1')	182 S1+	308 S1+
880-55872-24	TH-12 (4.1')	175 S1+	231 S1+
880-55872-25	TH-12 (6')	141 S1+	140 S1+
880-55872-26	TH-12 (8')	124	118
890-7841-A-1-F MS	Matrix Spike	116	104
890-7841-A-1-G MSD	Matrix Spike Duplicate	100	108
LCS 880-105762/2-A	Lab Control Sample	128	117
LCS 880-105765/2-A	Lab Control Sample	136 S1+	143 S1+
LCS 880-105952/2-A	Lab Control Sample	122	113
LCSD 880-105762/3-A	Lab Control Sample Dup	132 S1+	146 S1+
LCSD 880-105765/3-A	Lab Control Sample Dup	158 S1+	140 S1+
LCSD 880-105952/3-A	Lab Control Sample Dup	122	112
MB 880-105762/1-A	Method Blank	103	100
MB 880-105765/1-A	Method Blank	120	118
MB 880-105952/1-A	Method Blank	107	104

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-105766/5-A

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:11	03/21/25 13:39	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:11	03/21/25 13:39	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:11	03/21/25 13:39	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:11	03/21/25 13:39	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:11	03/21/25 13:39	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:11	03/21/25 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/21/25 12:11	03/21/25 13:39	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/21/25 12:11	03/21/25 13:39	1

Lab Sample ID: LCS 880-105766/1-A

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09041		mg/Kg		90	70 - 130
Toluene	0.100	0.08376		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08318		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1806		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09080		mg/Kg		91	70 - 130

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

Lab Sample ID: LCSD 880-105766/2-A

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09659		mg/Kg		97	70 - 130	7	35
Toluene	0.100	0.08666		mg/Kg		87	70 - 130	3	35
Ethylbenzene	0.100	0.08557		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	1	35
o-Xylene	0.100	0.09212		mg/Kg		92	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 820-18016-A-21-C MS

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 105766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.100	0.09117		mg/Kg		91	70 - 130
Toluene	<0.00201	U	0.100	0.08710		mg/Kg		87	70 - 130

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: 820-18016-A-21-C MS

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 105766

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.100	0.08819		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1890		mg/Kg		95	70 - 130
o-Xylene	<0.00159	U	0.100	0.09518		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 820-18016-A-21-D MSD

Matrix: Solid

Analysis Batch: 105722

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 105766

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00140	U	0.100	0.07989		mg/Kg		80	70 - 130	13	35
Toluene	<0.00201	U	0.100	0.07560		mg/Kg		76	70 - 130	14	35
Ethylbenzene	<0.00109	U	0.100	0.07290		mg/Kg		73	70 - 130	19	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1548		mg/Kg		77	70 - 130	20	35
o-Xylene	<0.00159	U	0.100	0.07687		mg/Kg		77	70 - 130	21	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-105767/5-A

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 12:23	03/22/25 02:23	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 12:23	03/22/25 02:23	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 12:23	03/22/25 02:23	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 02:23	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 12:23	03/22/25 02:23	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 12:23	03/22/25 02:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/21/25 12:23	03/22/25 02:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/21/25 12:23	03/22/25 02:23	1

Lab Sample ID: LCS 880-105767/1-A

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09989		mg/Kg		100	70 - 130
Toluene	0.100	0.08950		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09230		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-105767/1-A

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09728		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-105767/2-A

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105767

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	1	35
Ethylbenzene	0.100	0.09375		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1954		mg/Kg		98	70 - 130	1	35
o-Xylene	0.100	0.09855		mg/Kg		99	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55872-1 MS

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 105767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00141	U	0.100	0.09731		mg/Kg		97	70 - 130
Toluene	<0.00202	U	0.100	0.08599		mg/Kg		86	70 - 130
Ethylbenzene	<0.00110	U	0.100	0.08665		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00231	U	0.200	0.1790		mg/Kg		89	70 - 130
o-Xylene	<0.00160	U	0.100	0.08962		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-55872-1 MSD

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 105767

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00141	U	0.100	0.09290		mg/Kg		93	70 - 130	5	35
Toluene	<0.00202	U	0.100	0.08252		mg/Kg		83	70 - 130	4	35
Ethylbenzene	<0.00110	U	0.100	0.08299		mg/Kg		83	70 - 130	4	35
m-Xylene & p-Xylene	<0.00231	U	0.200	0.1730		mg/Kg		87	70 - 130	3	35
o-Xylene	<0.00160	U	0.100	0.08626		mg/Kg		86	70 - 130	4	35

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-55872-1 MSD

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 105767

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-105769/8

Matrix: Solid

Analysis Batch: 105769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg			03/21/25 15:25	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg			03/21/25 15:25	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg			03/21/25 15:25	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg			03/21/25 15:25	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg			03/21/25 15:25	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg			03/21/25 15:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/21/25 15:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130		03/21/25 15:25	1

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

Lab Sample ID: MB 880-105762/1-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 11:25	03/22/25 01:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:25	03/22/25 01:07	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:25	03/22/25 01:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/21/25 11:25	03/22/25 01:07	1
o-Terphenyl	100		70 - 130	03/21/25 11:25	03/22/25 01:07	1

Lab Sample ID: LCS 880-105762/2-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	922.9		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	923.3		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	117		70 - 130

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-105762/3-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1163	*1	mg/Kg		116	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1259	*1	mg/Kg		126	70 - 130	31	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	132	S1+	70 - 130						
o-Terphenyl	146	S1+	70 - 130						

Lab Sample ID: 880-55872-1 MS

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 105762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	996	974.6		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U *1	996	1013		mg/Kg		102	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	142	S1+	70 - 130								
o-Terphenyl	125		70 - 130								

Lab Sample ID: 880-55872-1 MSD

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 105762

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U *1	996	959.8		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<15.1	U *1	996	1062		mg/Kg		107	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	119		70 - 130								
o-Terphenyl	125		70 - 130								

Lab Sample ID: MB 880-105765/1-A

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 11:44	03/22/25 01:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 01:07	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 11:44	03/22/25 01:07	1

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-105765/1-A

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105765

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	120		70 - 130	03/21/25 11:44	03/22/25 01:07	1				
o-Terphenyl	118		70 - 130	03/21/25 11:44	03/22/25 01:07	1				

Lab Sample ID: LCS 880-105765/2-A

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105765

			Spike	LCS	LCS						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1179		mg/Kg		118		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1234		mg/Kg		123		70 - 130	
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	136	S1+	70 - 130								
o-Terphenyl	143	S1+	70 - 130								

Lab Sample ID: LCSD 880-105765/3-A

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105765

			Spike	LCSD	LCSD							
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1179		mg/Kg		118		70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1139		mg/Kg		114		70 - 130	8	20
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	158	S1+	70 - 130									
o-Terphenyl	140	S1+	70 - 130									

Lab Sample ID: 880-55872-14 MS

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: TH-7 (4.1')

Prep Type: Total/NA

Prep Batch: 105765

	Sample	Sample	Spike	MS	MS							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1087		mg/Kg		109		70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	999	1200		mg/Kg		120		70 - 130		
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	133	S1+	70 - 130									
o-Terphenyl	134	S1+	70 - 130									

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-55872-14 MSD

Matrix: Solid

Analysis Batch: 105740

Client Sample ID: TH-7 (4.1')

Prep Type: Total/NA

Prep Batch: 105765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1017		mg/Kg		102	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	1163		mg/Kg		116	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	132	S1+	70 - 130								
o-Terphenyl	133	S1+	70 - 130								

Lab Sample ID: MB 880-105952/1-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/25/25 07:32	03/25/25 04:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/25/25 07:32	03/25/25 04:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/25/25 07:32	03/25/25 04:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/25/25 07:32	03/25/25 04:42	1
o-Terphenyl	104		70 - 130				03/25/25 07:32	03/25/25 04:42	1

Lab Sample ID: LCS 880-105952/2-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	936.0		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	957.4		mg/Kg		96	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCSD 880-105952/3-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	937.1		mg/Kg		94	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	954.2		mg/Kg		95	70 - 130	0	20

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Lab Sample ID: LCSD 880-105952/3-A

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105952

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-7841-A-1-F MS

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	994	869.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	16.0	J	994	886.4		mg/Kg		88	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-7841-A-1-G MSD

Matrix: Solid

Analysis Batch: 105970

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 105952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	994	889.9		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	16.0	J	994	961.1		mg/Kg		95	70 - 130	8	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105761/1-A

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/21/25 17:50	1

Lab Sample ID: LCS 880-105761/2-A

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.2		mg/Kg		99	90 - 110

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-105761/3-A

Matrix: Solid

Analysis Batch: 105770

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	249.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-55872-1 MS

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: TH-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186	F1	252	370.8	F1	mg/Kg		73	90 - 110		

Lab Sample ID: 880-55872-1 MSD

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: TH-1 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	186	F1	252	372.2	F1	mg/Kg		74	90 - 110	0	20

Lab Sample ID: 880-55872-11 MS

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: TH-6 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.1		249	323.4		mg/Kg		103	90 - 110		

Lab Sample ID: 880-55872-11 MSD

Matrix: Solid

Analysis Batch: 105770

Client Sample ID: TH-6 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.1		249	324.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-105780/1-A

Matrix: Solid

Analysis Batch: 105791

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/21/25 20:01	1

Lab Sample ID: LCS 880-105780/2-A

Matrix: Solid

Analysis Batch: 105791

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.2		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-105780/3-A

Matrix: Solid

Analysis Batch: 105791

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	248.2		mg/Kg		99	90 - 110	0	20

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QC Sample Results

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-55872-26 MS										Client Sample ID: TH-12 (8')				
Matrix: Solid										Prep Type: Soluble				
Analysis Batch: 105791														
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits					
Chloride	216	F1	250	516.9	F1	mg/Kg		120	90 - 110					

Lab Sample ID: 880-55872-26 MSD										Client Sample ID: TH-12 (8')				
Matrix: Solid										Prep Type: Soluble				
Analysis Batch: 105791														
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit			
Chloride	216	F1	250	517.1	F1	mg/Kg		120	90 - 110	0	20			

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 105722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-21	TH-11 (1')	Total/NA	Solid	8021B	105766
880-55872-22	TH-11 (4.1')	Total/NA	Solid	8021B	105766
880-55872-23	TH-12 (1')	Total/NA	Solid	8021B	105766
880-55872-24	TH-12 (4.1')	Total/NA	Solid	8021B	105766
880-55872-25	TH-12 (6')	Total/NA	Solid	8021B	105766
880-55872-26	TH-12 (8')	Total/NA	Solid	8021B	105766
MB 880-105766/5-A	Method Blank	Total/NA	Solid	8021B	105766
LCS 880-105766/1-A	Lab Control Sample	Total/NA	Solid	8021B	105766
LCSD 880-105766/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105766
820-18016-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	105766
820-18016-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	105766

Prep Batch: 105766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-21	TH-11 (1')	Total/NA	Solid	5035	
880-55872-22	TH-11 (4.1')	Total/NA	Solid	5035	
880-55872-23	TH-12 (1')	Total/NA	Solid	5035	
880-55872-24	TH-12 (4.1')	Total/NA	Solid	5035	
880-55872-25	TH-12 (6')	Total/NA	Solid	5035	
880-55872-26	TH-12 (8')	Total/NA	Solid	5035	
MB 880-105766/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105766/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105766/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-18016-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
820-18016-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 105767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	5035	
880-55872-2	TH-1 (4.1')	Total/NA	Solid	5035	
880-55872-3	TH-2 (1')	Total/NA	Solid	5035	
880-55872-4	TH-2 (4.1')	Total/NA	Solid	5035	
880-55872-5	TH-3 (1')	Total/NA	Solid	5035	
880-55872-6	TH-3 (4.1')	Total/NA	Solid	5035	
880-55872-7	TH-4 (1')	Total/NA	Solid	5035	
880-55872-8	TH-4 (4.1')	Total/NA	Solid	5035	
880-55872-9	TH-5 (1')	Total/NA	Solid	5035	
880-55872-10	TH-5 (4.1')	Total/NA	Solid	5035	
880-55872-11	TH-6 (1')	Total/NA	Solid	5035	
880-55872-12	TH-6 (4.1')	Total/NA	Solid	5035	
880-55872-13	TH-7 (1')	Total/NA	Solid	5035	
880-55872-14	TH-7 (4.1')	Total/NA	Solid	5035	
880-55872-15	TH-8 (1')	Total/NA	Solid	5035	
880-55872-16	TH-8 (4.1')	Total/NA	Solid	5035	
880-55872-17	TH-9 (1')	Total/NA	Solid	5035	
880-55872-18	TH-9 (4.1')	Total/NA	Solid	5035	
880-55872-19	TH-10 (1')	Total/NA	Solid	5035	
880-55872-20	TH-10 (4.1')	Total/NA	Solid	5035	
MB 880-105767/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-105767/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-105767/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

GC VOA (Continued)

Prep Batch: 105767 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1 MS	TH-1 (1')	Total/NA	Solid	5035	
880-55872-1 MSD	TH-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 105769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	8021B	105767
880-55872-2	TH-1 (4.1')	Total/NA	Solid	8021B	105767
880-55872-3	TH-2 (1')	Total/NA	Solid	8021B	105767
880-55872-4	TH-2 (4.1')	Total/NA	Solid	8021B	105767
880-55872-5	TH-3 (1')	Total/NA	Solid	8021B	105767
880-55872-6	TH-3 (4.1')	Total/NA	Solid	8021B	105767
880-55872-7	TH-4 (1')	Total/NA	Solid	8021B	105767
880-55872-8	TH-4 (4.1')	Total/NA	Solid	8021B	105767
880-55872-9	TH-5 (1')	Total/NA	Solid	8021B	105767
880-55872-10	TH-5 (4.1')	Total/NA	Solid	8021B	105767
880-55872-11	TH-6 (1')	Total/NA	Solid	8021B	105767
880-55872-12	TH-6 (4.1')	Total/NA	Solid	8021B	105767
880-55872-13	TH-7 (1')	Total/NA	Solid	8021B	105767
880-55872-14	TH-7 (4.1')	Total/NA	Solid	8021B	105767
880-55872-15	TH-8 (1')	Total/NA	Solid	8021B	105767
880-55872-16	TH-8 (4.1')	Total/NA	Solid	8021B	105767
880-55872-17	TH-9 (1')	Total/NA	Solid	8021B	105767
880-55872-18	TH-9 (4.1')	Total/NA	Solid	8021B	105767
880-55872-19	TH-10 (1')	Total/NA	Solid	8021B	105767
880-55872-20	TH-10 (4.1')	Total/NA	Solid	8021B	105767
MB 880-105767/5-A	Method Blank	Total/NA	Solid	8021B	105767
MB 880-105769/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-105767/1-A	Lab Control Sample	Total/NA	Solid	8021B	105767
LCSD 880-105767/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105767
880-55872-1 MS	TH-1 (1')	Total/NA	Solid	8021B	105767
880-55872-1 MSD	TH-1 (1')	Total/NA	Solid	8021B	105767

Analysis Batch: 105906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	Total BTEX	
880-55872-2	TH-1 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-3	TH-2 (1')	Total/NA	Solid	Total BTEX	
880-55872-4	TH-2 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-5	TH-3 (1')	Total/NA	Solid	Total BTEX	
880-55872-6	TH-3 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-7	TH-4 (1')	Total/NA	Solid	Total BTEX	
880-55872-8	TH-4 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-9	TH-5 (1')	Total/NA	Solid	Total BTEX	
880-55872-10	TH-5 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-11	TH-6 (1')	Total/NA	Solid	Total BTEX	
880-55872-12	TH-6 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-13	TH-7 (1')	Total/NA	Solid	Total BTEX	
880-55872-14	TH-7 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-15	TH-8 (1')	Total/NA	Solid	Total BTEX	
880-55872-16	TH-8 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-17	TH-9 (1')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

GC VOA (Continued)

Analysis Batch: 105906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-18	TH-9 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-19	TH-10 (1')	Total/NA	Solid	Total BTEX	
880-55872-20	TH-10 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-21	TH-11 (1')	Total/NA	Solid	Total BTEX	
880-55872-22	TH-11 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-23	TH-12 (1')	Total/NA	Solid	Total BTEX	
880-55872-24	TH-12 (4.1')	Total/NA	Solid	Total BTEX	
880-55872-25	TH-12 (6')	Total/NA	Solid	Total BTEX	
880-55872-26	TH-12 (8')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 105738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	8015B NM	105762
880-55872-2	TH-1 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-3	TH-2 (1')	Total/NA	Solid	8015B NM	105762
880-55872-4	TH-2 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-5	TH-3 (1')	Total/NA	Solid	8015B NM	105762
880-55872-6	TH-3 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-7	TH-4 (1')	Total/NA	Solid	8015B NM	105762
880-55872-8	TH-4 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-9	TH-5 (1')	Total/NA	Solid	8015B NM	105762
880-55872-10	TH-5 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-11	TH-6 (1')	Total/NA	Solid	8015B NM	105762
880-55872-12	TH-6 (4.1')	Total/NA	Solid	8015B NM	105762
880-55872-13	TH-7 (1')	Total/NA	Solid	8015B NM	105762
MB 880-105762/1-A	Method Blank	Total/NA	Solid	8015B NM	105762
LCS 880-105762/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105762
LCSD 880-105762/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105762
880-55872-1 MS	TH-1 (1')	Total/NA	Solid	8015B NM	105762
880-55872-1 MSD	TH-1 (1')	Total/NA	Solid	8015B NM	105762

Analysis Batch: 105740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-14	TH-7 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-15	TH-8 (1')	Total/NA	Solid	8015B NM	105765
880-55872-16	TH-8 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-17	TH-9 (1')	Total/NA	Solid	8015B NM	105765
880-55872-18	TH-9 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-19	TH-10 (1')	Total/NA	Solid	8015B NM	105765
880-55872-20	TH-10 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-21	TH-11 (1')	Total/NA	Solid	8015B NM	105765
880-55872-22	TH-11 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-25	TH-12 (6')	Total/NA	Solid	8015B NM	105765
880-55872-26	TH-12 (8')	Total/NA	Solid	8015B NM	105765
MB 880-105765/1-A	Method Blank	Total/NA	Solid	8015B NM	105765
LCS 880-105765/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105765
LCSD 880-105765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105765
880-55872-14 MS	TH-7 (4.1')	Total/NA	Solid	8015B NM	105765
880-55872-14 MSD	TH-7 (4.1')	Total/NA	Solid	8015B NM	105765

Eurofins Midland

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 105762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-55872-2	TH-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-3	TH-2 (1')	Total/NA	Solid	8015NM Prep	
880-55872-4	TH-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-5	TH-3 (1')	Total/NA	Solid	8015NM Prep	
880-55872-6	TH-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-7	TH-4 (1')	Total/NA	Solid	8015NM Prep	
880-55872-8	TH-4 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-9	TH-5 (1')	Total/NA	Solid	8015NM Prep	
880-55872-10	TH-5 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-11	TH-6 (1')	Total/NA	Solid	8015NM Prep	
880-55872-12	TH-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-13	TH-7 (1')	Total/NA	Solid	8015NM Prep	
MB 880-105762/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105762/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105762/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55872-1 MS	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-55872-1 MSD	TH-1 (1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 105765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-14	TH-7 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-15	TH-8 (1')	Total/NA	Solid	8015NM Prep	
880-55872-16	TH-8 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-17	TH-9 (1')	Total/NA	Solid	8015NM Prep	
880-55872-18	TH-9 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-19	TH-10 (1')	Total/NA	Solid	8015NM Prep	
880-55872-20	TH-10 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-21	TH-11 (1')	Total/NA	Solid	8015NM Prep	
880-55872-22	TH-11 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-25	TH-12 (6')	Total/NA	Solid	8015NM Prep	
880-55872-26	TH-12 (8')	Total/NA	Solid	8015NM Prep	
MB 880-105765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55872-14 MS	TH-7 (4.1')	Total/NA	Solid	8015NM Prep	
880-55872-14 MSD	TH-7 (4.1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 105952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-23	TH-12 (1')	Total/NA	Solid	8015NM Prep	
880-55872-24	TH-12 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-105952/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105952/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7841-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-7841-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 105970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-23	TH-12 (1')	Total/NA	Solid	8015B NM	105952

Eurofins Midland

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 105970 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-24	TH-12 (4.1')	Total/NA	Solid	8015B NM	105952
MB 880-105952/1-A	Method Blank	Total/NA	Solid	8015B NM	105952
LCS 880-105952/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105952
LCSD 880-105952/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105952
890-7841-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	105952
890-7841-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	105952

Analysis Batch: 106012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Total/NA	Solid	8015 NM	
880-55872-2	TH-1 (4.1')	Total/NA	Solid	8015 NM	
880-55872-3	TH-2 (1')	Total/NA	Solid	8015 NM	
880-55872-4	TH-2 (4.1')	Total/NA	Solid	8015 NM	
880-55872-5	TH-3 (1')	Total/NA	Solid	8015 NM	
880-55872-6	TH-3 (4.1')	Total/NA	Solid	8015 NM	
880-55872-7	TH-4 (1')	Total/NA	Solid	8015 NM	
880-55872-8	TH-4 (4.1')	Total/NA	Solid	8015 NM	
880-55872-9	TH-5 (1')	Total/NA	Solid	8015 NM	
880-55872-10	TH-5 (4.1')	Total/NA	Solid	8015 NM	
880-55872-11	TH-6 (1')	Total/NA	Solid	8015 NM	
880-55872-12	TH-6 (4.1')	Total/NA	Solid	8015 NM	
880-55872-13	TH-7 (1')	Total/NA	Solid	8015 NM	
880-55872-14	TH-7 (4.1')	Total/NA	Solid	8015 NM	
880-55872-15	TH-8 (1')	Total/NA	Solid	8015 NM	
880-55872-16	TH-8 (4.1')	Total/NA	Solid	8015 NM	
880-55872-17	TH-9 (1')	Total/NA	Solid	8015 NM	
880-55872-18	TH-9 (4.1')	Total/NA	Solid	8015 NM	
880-55872-19	TH-10 (1')	Total/NA	Solid	8015 NM	
880-55872-20	TH-10 (4.1')	Total/NA	Solid	8015 NM	
880-55872-21	TH-11 (1')	Total/NA	Solid	8015 NM	
880-55872-22	TH-11 (4.1')	Total/NA	Solid	8015 NM	
880-55872-23	TH-12 (1')	Total/NA	Solid	8015 NM	
880-55872-24	TH-12 (4.1')	Total/NA	Solid	8015 NM	
880-55872-25	TH-12 (6')	Total/NA	Solid	8015 NM	
880-55872-26	TH-12 (8')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 105761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Soluble	Solid	DI Leach	
880-55872-2	TH-1 (4.1')	Soluble	Solid	DI Leach	
880-55872-3	TH-2 (1')	Soluble	Solid	DI Leach	
880-55872-4	TH-2 (4.1')	Soluble	Solid	DI Leach	
880-55872-5	TH-3 (1')	Soluble	Solid	DI Leach	
880-55872-6	TH-3 (4.1')	Soluble	Solid	DI Leach	
880-55872-7	TH-4 (1')	Soluble	Solid	DI Leach	
880-55872-8	TH-4 (4.1')	Soluble	Solid	DI Leach	
880-55872-9	TH-5 (1')	Soluble	Solid	DI Leach	
880-55872-10	TH-5 (4.1')	Soluble	Solid	DI Leach	
880-55872-11	TH-6 (1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 105761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-12	TH-6 (4.1')	Soluble	Solid	DI Leach	
880-55872-13	TH-7 (1')	Soluble	Solid	DI Leach	
880-55872-14	TH-7 (4.1')	Soluble	Solid	DI Leach	
880-55872-15	TH-8 (1')	Soluble	Solid	DI Leach	
880-55872-16	TH-8 (4.1')	Soluble	Solid	DI Leach	
880-55872-17	TH-9 (1')	Soluble	Solid	DI Leach	
880-55872-18	TH-9 (4.1')	Soluble	Solid	DI Leach	
880-55872-19	TH-10 (1')	Soluble	Solid	DI Leach	
880-55872-20	TH-10 (4.1')	Soluble	Solid	DI Leach	
MB 880-105761/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105761/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105761/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55872-1 MS	TH-1 (1')	Soluble	Solid	DI Leach	
880-55872-1 MSD	TH-1 (1')	Soluble	Solid	DI Leach	
880-55872-11 MS	TH-6 (1')	Soluble	Solid	DI Leach	
880-55872-11 MSD	TH-6 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 105770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-1	TH-1 (1')	Soluble	Solid	300.0	105761
880-55872-2	TH-1 (4.1')	Soluble	Solid	300.0	105761
880-55872-3	TH-2 (1')	Soluble	Solid	300.0	105761
880-55872-4	TH-2 (4.1')	Soluble	Solid	300.0	105761
880-55872-5	TH-3 (1')	Soluble	Solid	300.0	105761
880-55872-6	TH-3 (4.1')	Soluble	Solid	300.0	105761
880-55872-7	TH-4 (1')	Soluble	Solid	300.0	105761
880-55872-8	TH-4 (4.1')	Soluble	Solid	300.0	105761
880-55872-9	TH-5 (1')	Soluble	Solid	300.0	105761
880-55872-10	TH-5 (4.1')	Soluble	Solid	300.0	105761
880-55872-11	TH-6 (1')	Soluble	Solid	300.0	105761
880-55872-12	TH-6 (4.1')	Soluble	Solid	300.0	105761
880-55872-13	TH-7 (1')	Soluble	Solid	300.0	105761
880-55872-14	TH-7 (4.1')	Soluble	Solid	300.0	105761
880-55872-15	TH-8 (1')	Soluble	Solid	300.0	105761
880-55872-16	TH-8 (4.1')	Soluble	Solid	300.0	105761
880-55872-17	TH-9 (1')	Soluble	Solid	300.0	105761
880-55872-18	TH-9 (4.1')	Soluble	Solid	300.0	105761
880-55872-19	TH-10 (1')	Soluble	Solid	300.0	105761
880-55872-20	TH-10 (4.1')	Soluble	Solid	300.0	105761
MB 880-105761/1-A	Method Blank	Soluble	Solid	300.0	105761
LCS 880-105761/2-A	Lab Control Sample	Soluble	Solid	300.0	105761
LCSD 880-105761/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105761
880-55872-1 MS	TH-1 (1')	Soluble	Solid	300.0	105761
880-55872-1 MSD	TH-1 (1')	Soluble	Solid	300.0	105761
880-55872-11 MS	TH-6 (1')	Soluble	Solid	300.0	105761
880-55872-11 MSD	TH-6 (1')	Soluble	Solid	300.0	105761

Leach Batch: 105780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-21	TH-11 (1')	Soluble	Solid	DI Leach	
880-55872-22	TH-11 (4.1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 105780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-23	TH-12 (1')	Soluble	Solid	DI Leach	
880-55872-24	TH-12 (4.1')	Soluble	Solid	DI Leach	
880-55872-25	TH-12 (6')	Soluble	Solid	DI Leach	
880-55872-26	TH-12 (8')	Soluble	Solid	DI Leach	
MB 880-105780/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105780/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105780/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55872-26 MS	TH-12 (8')	Soluble	Solid	DI Leach	
880-55872-26 MSD	TH-12 (8')	Soluble	Solid	DI Leach	

Analysis Batch: 105791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55872-21	TH-11 (1')	Soluble	Solid	300.0	105780
880-55872-22	TH-11 (4.1')	Soluble	Solid	300.0	105780
880-55872-23	TH-12 (1')	Soluble	Solid	300.0	105780
880-55872-24	TH-12 (4.1')	Soluble	Solid	300.0	105780
880-55872-25	TH-12 (6')	Soluble	Solid	300.0	105780
880-55872-26	TH-12 (8')	Soluble	Solid	300.0	105780
MB 880-105780/1-A	Method Blank	Soluble	Solid	300.0	105780
LCS 880-105780/2-A	Lab Control Sample	Soluble	Solid	300.0	105780
LCSD 880-105780/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105780
880-55872-26 MS	TH-12 (8')	Soluble	Solid	300.0	105780
880-55872-26 MSD	TH-12 (8')	Soluble	Solid	300.0	105780

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-55872-1

Date Collected: 03/18/25 10:30

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 02:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 01:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:07	SMC	EET MID

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-55872-2

Date Collected: 03/18/25 10:45

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 03:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 02:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 02:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:24	SMC	EET MID

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-55872-3

Date Collected: 03/18/25 11:00

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 03:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 03:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:30	SMC	EET MID

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-55872-4

Date Collected: 03/18/25 11:15

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 03:46	AJ	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-2 (4.1')**Date Collected: 03/18/25 11:15****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-4****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			106012	03/22/25 03:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 03:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:36	SMC	EET MID

Client Sample ID: TH-3 (1')**Date Collected: 03/18/25 11:30****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 04:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 03:34	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:41	SMC	EET MID

Client Sample ID: TH-3 (4.1')**Date Collected: 03/18/25 11:45****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-6****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			5.05 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 04:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 04:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 03:49	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 18:59	SMC	EET MID

Client Sample ID: TH-4 (1')**Date Collected: 03/18/25 12:00****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 04:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 04:05	TKC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-4 (1')**Date Collected: 03/18/25 12:00****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:04	SMC	EET MID

Client Sample ID: TH-4 (4.1')**Date Collected: 03/18/25 12:15****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 05:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 04:22	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:10	SMC	EET MID

Client Sample ID: TH-5 (1')**Date Collected: 03/18/25 12:30****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-9****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 05:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 05:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 04:37	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:16	SMC	EET MID

Client Sample ID: TH-5 (4.1')**Date Collected: 03/18/25 12:45****Date Received: 03/20/25 16:43****Lab Sample ID: 880-55872-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 05:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 04:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:22	SMC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-55872-11

Date Collected: 03/18/25 13:00

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 07:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 07:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 05:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 05:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:27	SMC	EET MID

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-55872-12

Date Collected: 03/18/25 13:15

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 07:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 05:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 05:42	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:45	SMC	EET MID

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-55872-13

Date Collected: 03/18/25 10:00

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 08:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 08:04	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 05:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105762	03/21/25 11:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/22/25 05:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 19:50	SMC	EET MID

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-55872-14

Date Collected: 03/18/25 10:15

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 08:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 08:24	AJ	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-55872-14

Date Collected: 03/18/25 10:15

Matrix: Solid

Date Received: 03/20/25 16:43

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			106012	03/22/25 01:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:08	SMC	EET MID

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-55872-15

Date Collected: 03/18/25 09:05

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 08:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 08:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 02:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 02:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:13	SMC	EET MID

Client Sample ID: TH-8 (4.1')

Lab Sample ID: 880-55872-16

Date Collected: 03/18/25 09:20

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 09:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 09:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 03:01	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:19	SMC	EET MID

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-55872-17

Date Collected: 03/18/25 09:30

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 09:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 09:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 03:17	TKC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-55872-17

Date Collected: 03/18/25 09:30

Matrix: Solid

Date Received: 03/20/25 16:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:25	SMC	EET MID

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-55872-18

Date Collected: 03/18/25 09:45

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 09:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 09:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 03:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:30	SMC	EET MID

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-55872-19

Date Collected: 03/18/25 14:35

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 10:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 03:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 03:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:36	SMC	EET MID

Client Sample ID: TH-10 (4.1')

Lab Sample ID: 880-55872-20

Date Collected: 03/18/25 14:50

Matrix: Solid

Date Received: 03/20/25 16:43

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	105767	03/21/25 12:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105769	03/22/25 10:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/22/25 10:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 04:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105761	03/21/25 10:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105770	03/21/25 20:42	SMC	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-55872-21

Date Collected: 03/18/25 14:05

Matrix: Solid

Date Received: 03/20/25 16:43

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	105722	03/21/25 19:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 19:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 04:22	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:11	SMC	EET MID

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-55872-22

Date Collected: 03/18/25 14:20

Matrix: Solid

Date Received: 03/20/25 16:43

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	105722	03/21/25 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 19:39	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 04:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 04:37	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:17	SMC	EET MID

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-55872-23

Date Collected: 03/18/25 13:35

Matrix: Solid

Date Received: 03/20/25 16:43

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	105722	03/21/25 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 20:00	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/25/25 13:05	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105952	03/25/25 07:32	FC	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	105970	03/25/25 13:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:23	SMC	EET MID

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-55872-24

Date Collected: 03/18/25 13:50

Matrix: Solid

Date Received: 03/20/25 16:43

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	105722	03/21/25 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 20:20	AJ	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (4.1')**Lab Sample ID: 880-55872-24****Date Collected: 03/18/25 13:50****Matrix: Solid****Date Received: 03/20/25 16:43**

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			106012	03/25/25 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105952	03/25/25 07:32	FC	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	105970	03/25/25 13:21	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:29	SMC	EET MID

Client Sample ID: TH-12 (6')**Lab Sample ID: 880-55872-25****Date Collected: 03/18/25 15:10****Matrix: Solid****Date Received: 03/20/25 16:43**

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	105722	03/21/25 20:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 20:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 05:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 05:42	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:35	SMC	EET MID

Client Sample ID: TH-12 (8')**Lab Sample ID: 880-55872-26****Date Collected: 03/18/25 15:20****Matrix: Solid****Date Received: 03/20/25 16:43**

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	105766	03/21/25 12:11	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	105722	03/21/25 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105906	03/21/25 21:01	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106012	03/22/25 05:58	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105765	03/21/25 11:44	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105740	03/22/25 05:58	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105780	03/21/25 13:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105791	03/21/25 21:40	SMC	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

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

Method Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-55872-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-55872-1	TH-1 (1')	Solid	03/18/25 10:30	03/20/25 16:43
880-55872-2	TH-1 (4.1')	Solid	03/18/25 10:45	03/20/25 16:43
880-55872-3	TH-2 (1')	Solid	03/18/25 11:00	03/20/25 16:43
880-55872-4	TH-2 (4.1')	Solid	03/18/25 11:15	03/20/25 16:43
880-55872-5	TH-3 (1')	Solid	03/18/25 11:30	03/20/25 16:43
880-55872-6	TH-3 (4.1')	Solid	03/18/25 11:45	03/20/25 16:43
880-55872-7	TH-4 (1')	Solid	03/18/25 12:00	03/20/25 16:43
880-55872-8	TH-4 (4.1')	Solid	03/18/25 12:15	03/20/25 16:43
880-55872-9	TH-5 (1')	Solid	03/18/25 12:30	03/20/25 16:43
880-55872-10	TH-5 (4.1')	Solid	03/18/25 12:45	03/20/25 16:43
880-55872-11	TH-6 (1')	Solid	03/18/25 13:00	03/20/25 16:43
880-55872-12	TH-6 (4.1')	Solid	03/18/25 13:15	03/20/25 16:43
880-55872-13	TH-7 (1')	Solid	03/18/25 10:00	03/20/25 16:43
880-55872-14	TH-7 (4.1')	Solid	03/18/25 10:15	03/20/25 16:43
880-55872-15	TH-8 (1')	Solid	03/18/25 09:05	03/20/25 16:43
880-55872-16	TH-8 (4.1')	Solid	03/18/25 09:20	03/20/25 16:43
880-55872-17	TH-9 (1')	Solid	03/18/25 09:30	03/20/25 16:43
880-55872-18	TH-9 (4.1')	Solid	03/18/25 09:45	03/20/25 16:43
880-55872-19	TH-10 (1')	Solid	03/18/25 14:35	03/20/25 16:43
880-55872-20	TH-10 (4.1')	Solid	03/18/25 14:50	03/20/25 16:43
880-55872-21	TH-11 (1')	Solid	03/18/25 14:05	03/20/25 16:43
880-55872-22	TH-11 (4.1')	Solid	03/18/25 14:20	03/20/25 16:43
880-55872-23	TH-12 (1')	Solid	03/18/25 13:35	03/20/25 16:43
880-55872-24	TH-12 (4.1')	Solid	03/18/25 13:50	03/20/25 16:43
880-55872-25	TH-12 (6')	Solid	03/18/25 15:10	03/20/25 16:43
880-55872-26	TH-12 (8')	Solid	03/18/25 15:20	03/20/25 16:43



Environment Testing
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Chain of Custody

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



880-55872 Chain of Custody

Wor

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Project Manager:	Cindy Crain	Bill to: (if different)	LEASA HALE
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 E. 17th St.	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79710
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

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

Project Name:		State 52 #17		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:				☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O			
Project Location:		Lea Co. NM		Due Date:																Cool: Cool MeOH: Me			
Sampler's Name:		Cindy Crain		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN			
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐														H ₃ PO ₄ : HP	
Samples Received Intact:		Yes ☒ No ☐		Thermometer ID:		IR5														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor:		-														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes ☐ No ☒ N/A		Temperature Reading:		3.3														Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:		3.2														NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments			
TH-1 (1')		S	3/18/25	1030	1'	G	1																
TH-1 (4.1')				1045	4.1'																		
TH-2 (1')				1100	1'																		
TH-2 (4.1')				1115	4.1'																		
TH-3 (1')				1130	1'																		
TH-3 (4.1')				1145	4.1'																		
TH-4 (1')				1200	1'																		
TH-4 (4.1')				1215	4.1'																		
TH-5 (1')				1230	1'																		
TH-5 (4.1')				1245	4.1'																		

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti 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 Ti 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		3/18/25 1043			
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	<u>Cindy Crain</u>	Bill to: (if different)	<u>Leasa Hale</u>
Company Name:	<u>Crain Environmental</u>	Company Name:	<u>SWR</u>
Address:	<u>2925 E. 17th St.</u>	Address:	<u>P.O. Box 53570</u>
City, State ZIP:	<u>Odessa, TX 79761</u>	City, State ZIP:	<u>Midland, TX 79710</u>
Phone:	<u>(575) 441-7244</u>	Email:	<u>Cindy.Crain@gmail.com</u>

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	<u>NM</u>
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		<u>State 52 #17</u>		Turn Around		ANALYSIS REQUEST												Preservative Codes							
Project Number:		<u>1</u>		☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O					
Project Location:		<u>Lea Co. NM</u>		Due Date:																Cool: Cool MeOH: Me					
Sampler's Name:		<u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN					
PO #:		<u>1</u>																		H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters <u>TPH 8015M</u> <u>BTEX</u> <u>Chlorides</u>														H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments					
TH-6 (1')		<u>S</u>	<u>3/18/25</u>	<u>1300</u>	<u>1'</u>	<u>G</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>															
TH-6 (4.1')		<u>↓</u>	<u>↓</u>	<u>1315</u>	<u>4.1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-7 (1')		<u>↓</u>	<u>↓</u>	<u>1000</u>	<u>1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-7 (4.1')		<u>↓</u>	<u>↓</u>	<u>1015</u>	<u>4.1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-8 (1')		<u>↓</u>	<u>↓</u>	<u>0905</u>	<u>1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-8 (4.1')		<u>↓</u>	<u>↓</u>	<u>0920</u>	<u>4.1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-9 (1')		<u>↓</u>	<u>↓</u>	<u>0930</u>	<u>1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-9 (4.1')		<u>↓</u>	<u>↓</u>	<u>0945</u>	<u>4.1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-10 (1')		<u>↓</u>	<u>↓</u>	<u>1435</u>	<u>1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															
TH-10 (4.1')		<u>↓</u>	<u>↓</u>	<u>1450</u>	<u>4.1'</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>															

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	Ti	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	Ti	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	
<u>Cindy Crain</u>		<u>[Signature]</u>		<u>3/18/25 1645</u>							
1		3		4		5		6			
3											
5											

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	<u>Cindy Crain</u>	Bill to: (if different)	<u>Leasa Hale</u>
Company Name:	<u>Crain Environmental</u>	Company Name:	<u>SWR</u>
Address:	<u>2925 E. 17th St.</u>	Address:	<u>P.O. Box 53570</u>
City, State ZIP:	<u>Odessa, TX 79761</u>	City, State ZIP:	<u>Midland, TX 79710</u>
Phone:	<u>(575) 441-7244</u>	Email:	<u>Cindy.Crain@gmail.com</u>

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	<u>NM</u>
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other: _____

Project Name:		<u>State 52 #17</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes							
Project Number:		<u>-</u>		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O					
Project Location:		<u>Lea Co., NM</u>		Due Date:																				Cool: Cool MeOH: Me					
Sampler's Name:		<u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN					
P.O. #:		<u>-</u>																						H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters <u>TPH 8015M</u> <u>BTEX</u> <u>Chlorides</u>																		H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																			Sample Comments			
TH-11 (1')		<u>S</u>	<u>3/18/25</u>	<u>1405</u>	<u>1'</u>	<u>G</u>	<u>1</u>																						
TH-11 (4.1')		<u> </u>	<u> </u>	<u>1420</u>	<u>4.1'</u>	<u> </u>	<u> </u>																						
TH-12 (1')		<u> </u>	<u> </u>	<u>1335</u>	<u>1'</u>	<u> </u>	<u> </u>																						
TH-12 (4.1')		<u> </u>	<u> </u>	<u>1350</u>	<u>4.1'</u>	<u> </u>	<u> </u>																						
TH-12 (6')		<u> </u>	<u> </u>	<u>1510</u>	<u>6'</u>	<u> </u>	<u> </u>																						
TH-12 (8')		<u> </u>	<u> </u>	<u>1520</u>	<u>8'</u>	<u> </u>	<u> </u>																						

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 Ti 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 Ti 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 <u>Cindy Crain</u>	<u>[Signature]</u>	<u>3/18/25 1645</u>	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-55872-1

SDG Number: Lea Co, NM

Login Number: 55872

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	



Appendix D: Photographic Documentation

PHOTOGRAPHIC DOCUMENTATION (MARCH 18, 2025)
STATE J 2 #017



View of well sign.



View to NW of Site.



View to N of TH-8.



View to N of TH-9.



PHOTOGRAPHIC DOCUMENTATION (MARCH 18, 2025)
STATE J 2 #017



View to NW of TH-2.



View to NW of TH-3.



View to NW of TH-4.



View to N of TH-5.

PHOTOGRAPHIC DOCUMENTATION (MARCH 18, 2025)
STATE J 2 #017



View to NW of TH-6.



View to N of TH-10.



View to W of TH-11.



View to NE of TH-12.

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

QUESTIONS

Action 457167

QUESTIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nSAP0225252743
Incident Name	NSAP0225252743 STATE J 2 #017 @ 30-025-33277
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-33277] STATE J 2 #017

Location of Release Source

Please answer all the questions in this group.

Site Name	State J 2 #017
Date Release Discovered	08/26/2002
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	Cause: Corrosion Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 457167

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 04/30/2025
--	---

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QUESTIONS, Page 3

Action 457167

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	465
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14100
GRO+DRO (EPA SW-846 Method 8015M)	14100
BTEX (EPA SW-846 Method 8021B or 8260B)	1.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/17/2024
On what date will (or did) the final sampling or liner inspection occur	06/30/2025
On what date will (or was) the remediation complete(d)	07/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	625
What is the estimated volume (in cubic yards) that will be reclaimed	103
What is the estimated surface area (in square feet) that will be remediated	625
What is the estimated volume (in cubic yards) that will be remediated	103

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, Page 4

Action 457167

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID:
	21355
	Action Number:
	457167
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	TNM-55-95 [fAB0000000061]
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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 04/30/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 457167

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 457167

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 457167

CONDITIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 457167
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	The remediation plan is approved as written. Southwest Royalties has 90-days (August 25, 2025) to submit to OCD its appropriate or final remediation closure report.	5/27/2025