

Released Volume Calculation – State BT N #1

Length 40 feet

Width 40 feet

Thickness 0.8 in

1,280 gal = 30 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 12,280 gallons (US, dry)

30 Bbls



Site Characterization Report and Remediation Workplan

October 22, 2025

**State BT N #001
Historical Release
API # 30-025-01012
Incident #nRM2029344863
Lease No. E0-0026-13**

Prepared For:

BXP Operating, LLC
11757 Katy Freeway, Suite 475
Houston, Texas 77079

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 D - NMSLO Cultural Resources Cover Sheet
Appendix E – Biological Desktop Review



1.0 Introduction

Crain Environmental (CE), on behalf of BXP Operating, LLC (BXP), has prepared this Site Characterization Report and Remediation Workplan for the historical release at the State BT N #1 (Site), located in Unit Letter P, Section 34, Township 11 South, Range 33 East, Lea County, New Mexico. The global positioning system (GPS) coordinates for the Site are 33.31670833, -103.59472222. The property surface rights are owned by the State of New Mexico (Lease No. E0-0026-13). The location of the Site is depicted on Figure 1.

2.0 Background

On October 14, 2020, BXP reported a release of 30 barrels (bbls) of produced water from a split poly line approximately 80' west of the State BT N #1 Battery. The initial Release Notification (C-141) was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 16, 2020, and incident #nRM2029344863 was assigned. The C-141 states that the split poly line was spliced and repaired, the leak volume gathered along the road, 30 bbls of fluid were recovered, and contaminated dirt would be hauled to an approved site.

On May 4, 2025, a Site Assessment Workplan (Workplan) was submitted to the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO). The Workplan proposed to dig four test holes at the sample locations shown on the attached Figure 2. The Workplan was approved by the ECO on May 5, 2025, and the soil investigation was conducted on August 4, 2025.

This Site Characterization Report and Remediation Workplan has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC), presents the results of the soil investigation, and provides a proposal for remediation.

3.0 NMOCD Closure Criteria

Cleanup standards for 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 four water wells within a 0.5-mile radius of the Site; however, none of the wells were installed within the last 25 years. On March 28, 2025, CE measured a depth to groundwater of 43.1' below ground surface (bgs) in well L-01327 (located approximately 983' east of the Site). Based on the depth to groundwater in well L-01327, the most stringent NMOCD Closure Criteria will apply to the Site. Figure 3 provides a wellhead protection area map that shows the location of water wells within a 0.5-mile radius of the Site, as recorded with NMOSE. NMOSE water well records are provided in Appendix A.

Nearby Water Wells

Well ID	Location from Site	Year Installed	Use	Well Depth and Depth to Water (feet bgs)
L 09545	Approx. 1,332' to the northwest	1984	N/A	154 / 70
L 01327	Approx. 983' to the east	1951	N/A	115 / 55
L 01396	Approx. 2,568' to the southeast	1952	N/A	126 / 45
L 02165	Approx. 1,655' to the southeast	1950	N/A	114 / Not provided

3.2 Surface Features and Other Development

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

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



- 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 United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a “low karst potential” area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Applicable to the Site

The Closure Criteria applicable to the Site will be based on the depth to groundwater, which dictates the regulatory guidelines typically associated with groundwater depths less than 50’ feet bgs since a depth to groundwater measurement of 43.1’ bgs was obtained from well L-01327 on March 28, 2025. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

Notes: NA = not applicable
 bgs = below ground surface
 mg/kg = milligrams per kilogram
 GRO = gasoline range organics



DRO = diesel range organics
MRO = motor oil range organics
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

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

4.2 Depth to Groundwater

As discussed in Section 3.1, the depth to groundwater was recorded at 43.1' bgs in well L-01327 (located 983' east of the Site) on March 28, 2025.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. As listed in the NMOSE database, there are four water wells within a 0.5-mile radius of the Site. There were no water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

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

4.5 Summary of Remediation Activities

On August 4, 2025, four test holes (TH-1 through TH-4) were dug with a backhoe to the west of the BT N #001 Battery along the lease road. Each test hole was dug to a depth of 4' below ground surface (bgs), and samples were collected at depths of 1', 2', 3', and 4' bgs from each test hole.

Samples collected from depths of 1' and 4' bgs at each test hole, plus a sample collected from a depth of 2' bgs in TH-4 were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method 300.0.

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



Referring to Table 1, concentrations of TPH, benzene, and BTEX were reported below the test method detection limits and/or Closure Criteria in each sample. Chloride concentrations were reported below the Closure Criteria in each sample except sample TH-4 at a depth of 1' bgs (1,470 mg/kg).

In compliance with the Cultural Properties Protection (CPP) Rule, a Cultural Survey was conducted at the BT N #1 site, and no cultural sites were identified. Appendix D provides a copy of the NMSLO Cultural Resources Cover Sheet for NMCRIS #156729.

A biological desktop review was conducted, and no critical habitats were found in proximity to the Site. A copy of the USFWS database review is included as Appendix E.

5.0 Proposed Remediation Workplan

BXP proposes to excavate soil around TH-4 to a depth of approximately 1.5' bgs. Horizontal delineation will be conducted during excavation, and five-point confirmation samples will be collected from the bottom and sidewalls of the excavation. All confirmation samples will be delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Upon laboratory confirmation that all TPH, BTEX, and chloride concentrations from the bottom and sidewalls of the excavation are below the NMOCD Closure Criteria, the excavation will be backfilled with clean topsoil from a nearby pit. One sample will be collected from the backfill soil, and will be analyzed for TPH, BTEX, and chlorides. All excavated soil will be hauled to an NMOCD approved disposal facility.

Pursuant to 19.15.29.13 NMAC, the impacted surface area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. The excavation will be seeded by seed drill method during the next favorable growing season using the NMSLO Coarse Seed Mix (planted in the amount specified in the pounds live seed (PSL) per acre), and fresh water will be applied for two consecutive weeks following seeding.

BXP respectfully requests a schedule of 90 days from the date of ECO approval of this Remediation Workplan to complete the proposed remediation activities and submit a Remediation Summary and Closure Report for NMOCD and ECO approval.

6.0 Distribution

Copy 1: New Mexico State Land Office
Environmental Compliance Office
ECO@nmslo.gov



TABLE

Table 1
Summary of Soil Sample Analyses
BXP Operating, LLC
State BT N #001
Incident #nRM2029344863

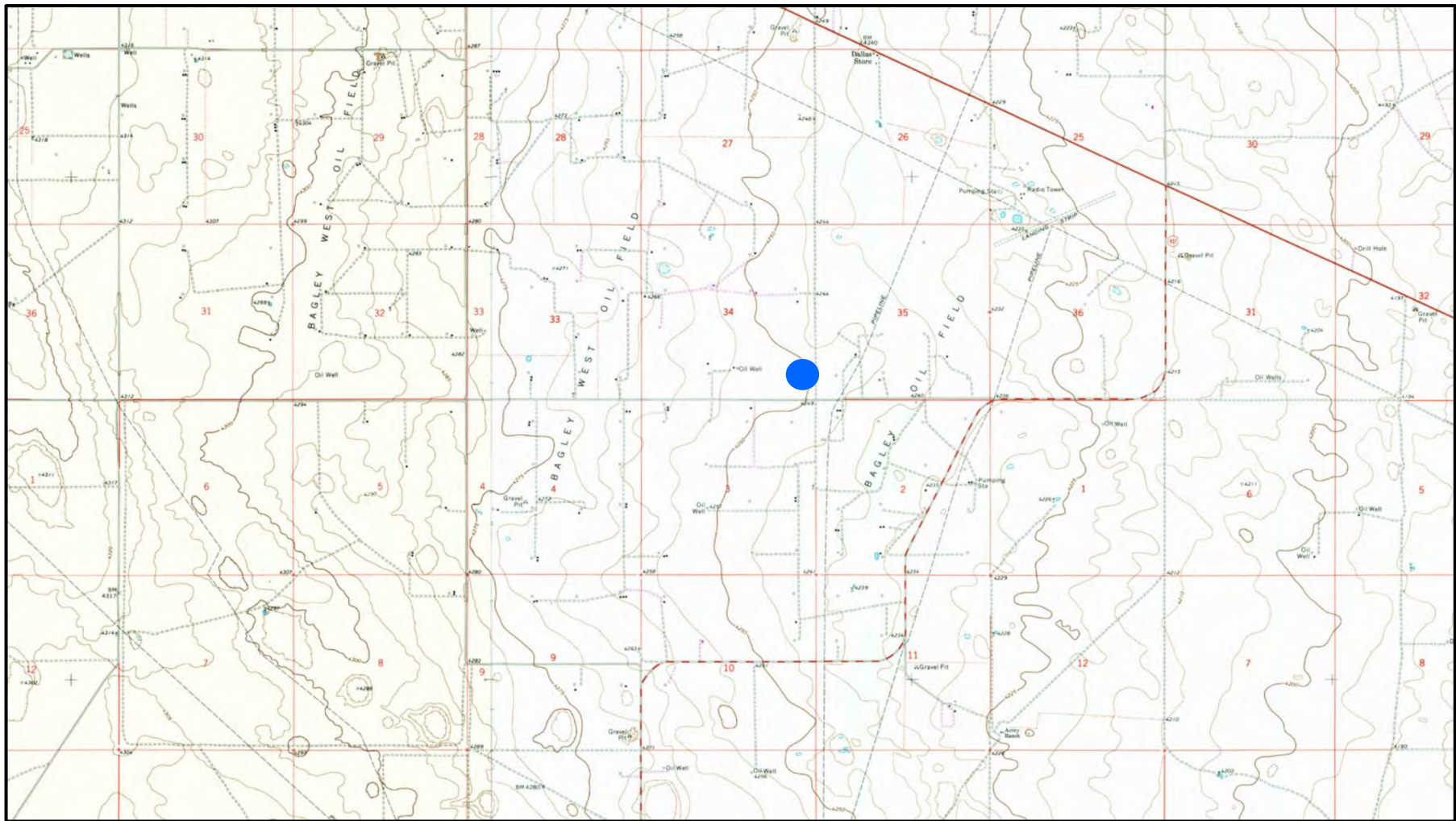
Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria				-	-	-	100	10	-	-	-	50	600
TH-1 (1')	08/04/25	1'	In Situ	<14.5	<15.1	38.7 J B	38.7 J	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	12.1
TH-1 (4')	08/04/25	4'	In Situ	<14.5	<15.1	34.0 J B	34.0 J	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	19.8
TH-2 (1')	08/04/25	1'	In Situ	<14.5	<15.1	41.0 J B	41.0 J	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	79.1
TH-2 (4')	08/04/25	4'	In Situ	<14.5	<15.1	34.1 J B	34.1 J	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	9.99 J
TH-3 (1')	08/04/25	1'	In Situ	<14.5	<15.1	40.6 J B	40.6 J	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	265
TH-3 (4')	08/04/25	4'	In Situ	<14.5	<15.1	30.3 J B	30.3 J	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	19.9
TH-4 (1')	08/04/25	1'	In Situ	<14.5	<15.1	39.0 J B	39.0 J	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	1,470
TH-4 (2')	08/04/25	2'	In Situ	<14.5	<15.1	30.9 J B	30.9 J	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	386
TH-4 (4')	08/04/25	4'	In Situ	<14.5	<15.1	29.7 J B	29.7 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	41.8

Notes:

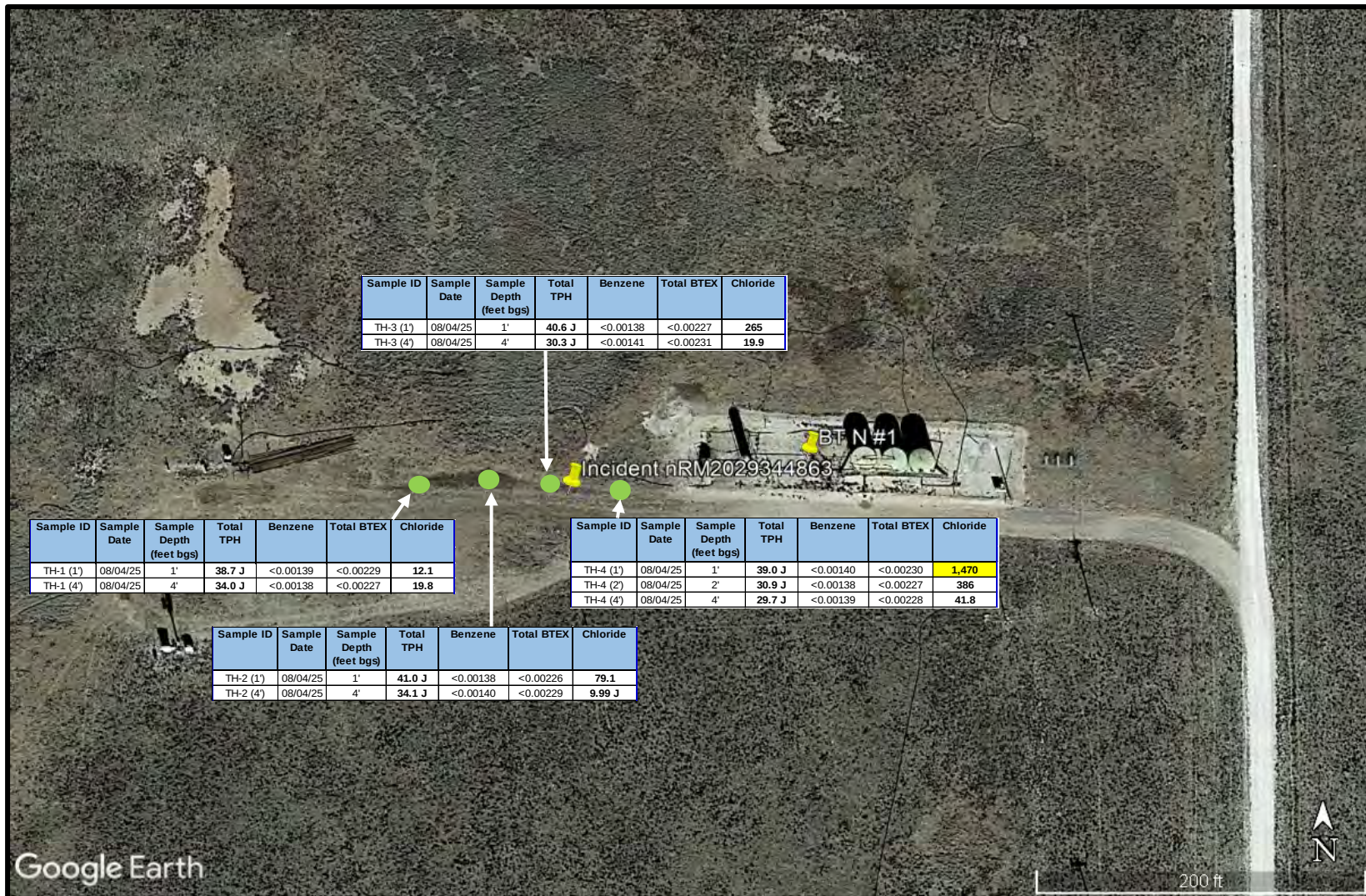
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil Range Organics
- bgs: below ground surface
- Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.
- < indicates the COC was below the appropriate laboratory method/sample detection limit
- Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria
- B: Compound was found in the blank and sample.
- J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



FIGURES



LEGEND:  Site Location Base Map from GAIA GPS		Figure 1 Site Location Map BXP Operating, LLC State BT N #001 Lea County, New Mexico		
			Drafted by: CC Checked by: CC	
			Draft: Oct. 21, 2025	
			GPS: 33.31670833° -103.59472222°	



LEGEND:



Sample Location with Sample Results



Highlight Indicates Concentrations Above Closure Criteria

Figure 2
Proposed Sample Location Map
BXP Operating, LLC
State BT N #001
Lea County, New Mexico

Drafted by: CC | Checked by: CC

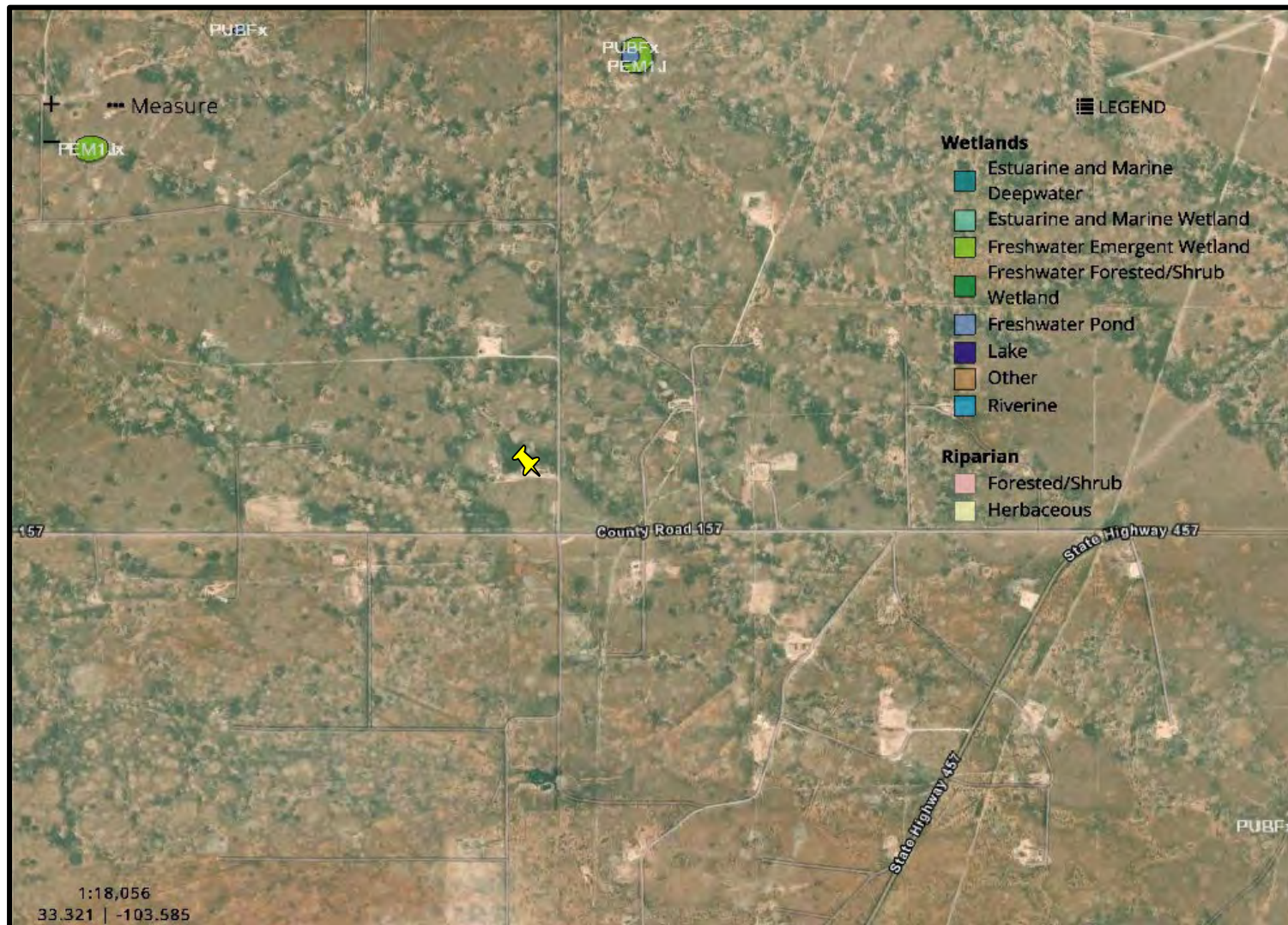
Draft: Oct. 21, 2025

GPS: 33.31670833° -103.59472222°

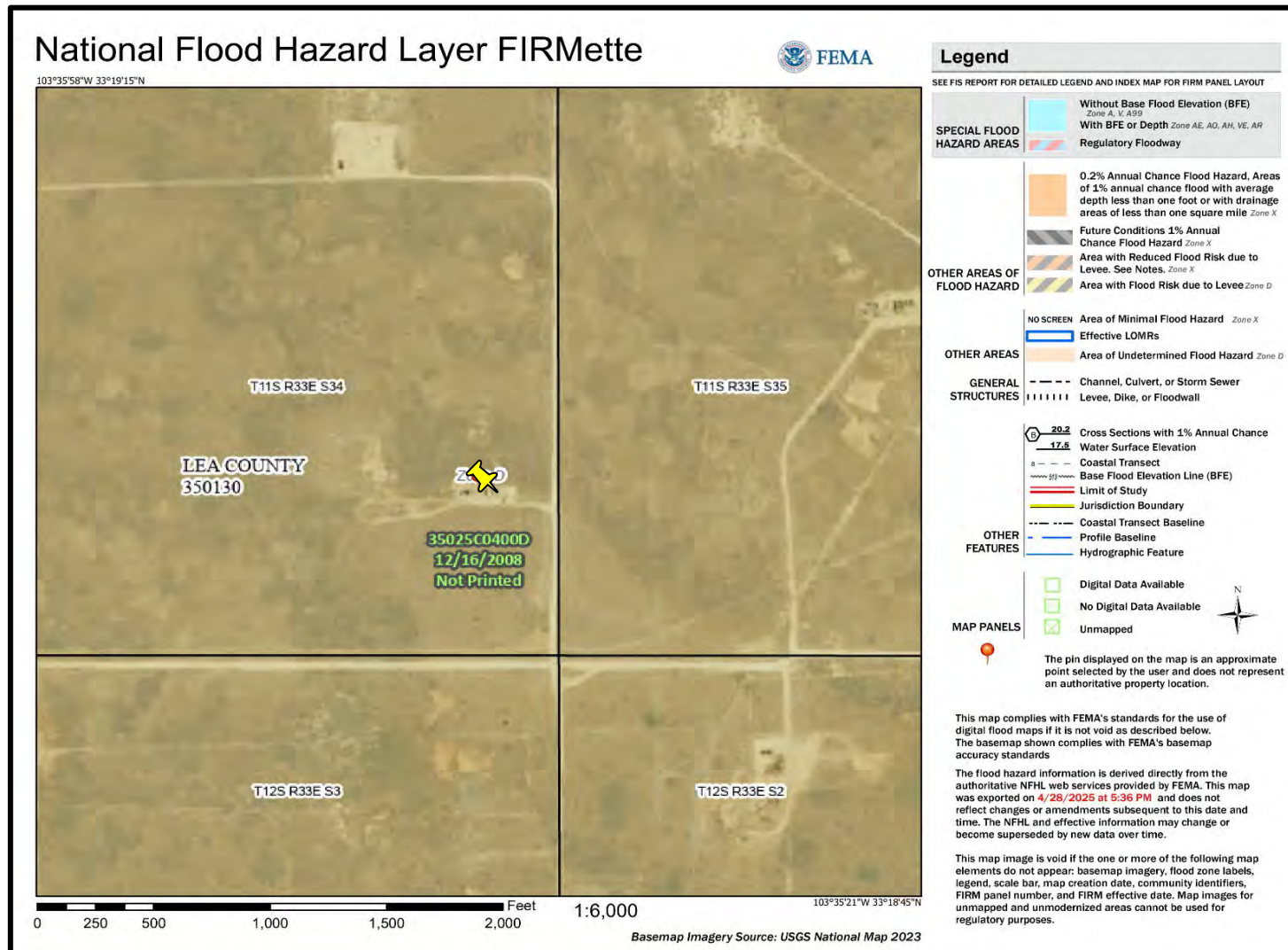




LEGEND:  Site and Water Well Locations  0.5 Mile Radius Base Map from Google Earth	Figure 3 Wellhead Protection Area Map BXP Operating, LLC State BT N #001 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: Oct. 21, 2025	
		GPS: 33.31670833° -103.59472222°	



LEGEND:  Site Location Base Map from USFWS	Figure 4 National Wetlands Inventory Map BXP Operating, LLC State BT N #001 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: Oct. 21, 2025	
		GPS: 33.31670833° -103.59472222°	



LEGEND:



Site Location

Base Map from FEMA

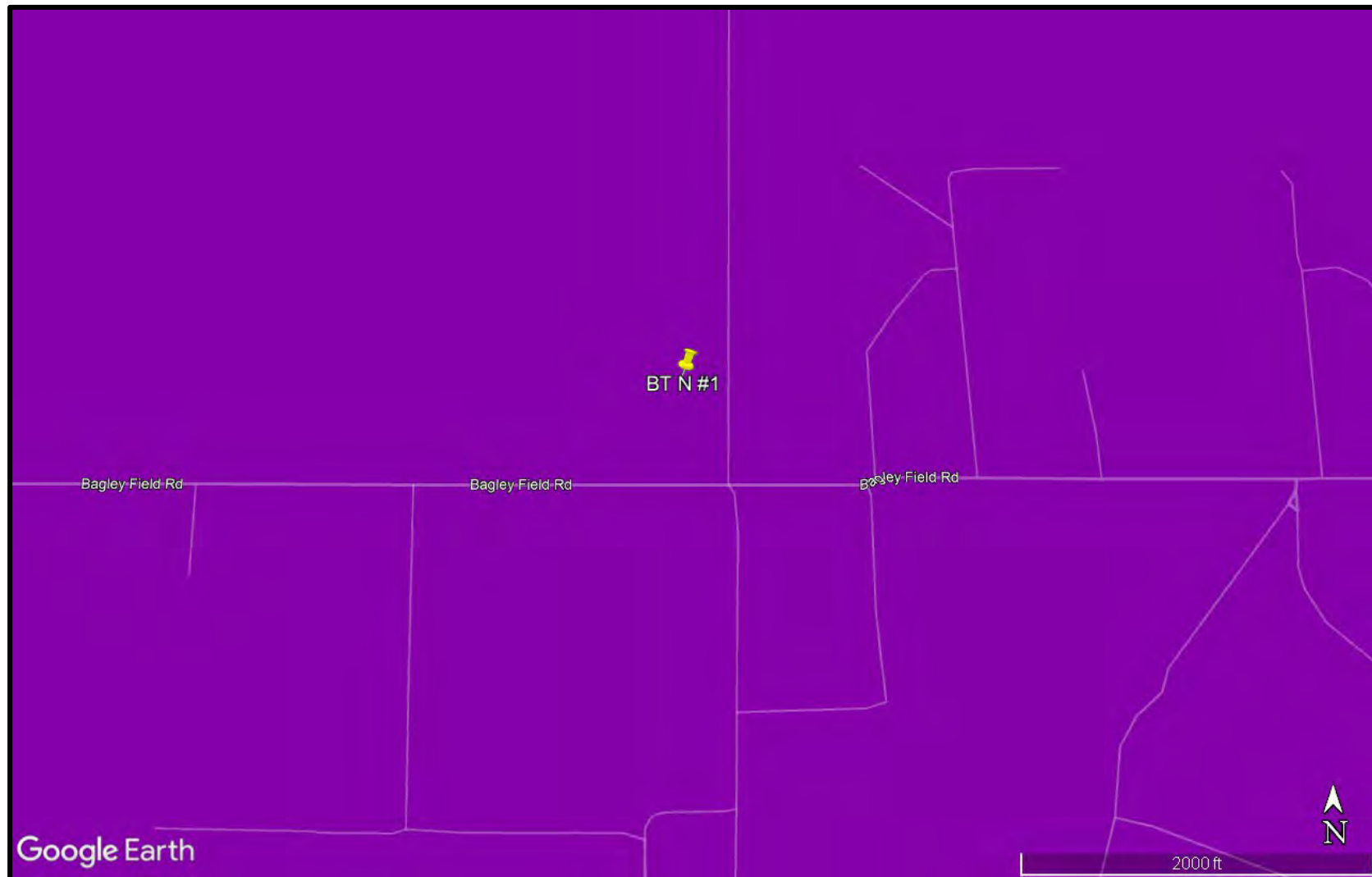
Figure 5
FEMA Floodplain Map
 BXP Operating, LLC
 State BT N #001
 Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Oct. 21, 2025

GPS: 33.31670833° -103.59472222°





LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map from Google Earth Pro and BLM	Figure 6 Karst Potential Map BXP Operating, LLC State BT N #001 Lea County, New Mexico	Drafted by: CC Checked by: CC Draft: Oct. 21, 2025 GPS: 33.31670833° -103.59472222°	Crain Environmental
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Appendix A: NMOSE Water Well Logs

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
	L 01327		SW	SW	35	11S	33E	631143.0	3687301.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	33	Driller Company:	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	1951-12-17	Drill Finish Date:	1951-12-18	Plug Date:	1954-07-10
Log File Date:	1952-02-18	PCW Rcv Date:	1953-02-20	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	115	Depth Water:	55

Water Bearing Stratifications:

Top	Bottom	Description
55	115	Sandstone/Gravel/Conglomerate

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.

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
	L 01396		NE	NW	02	12S	33E	631552.0	3686905.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	33	Driller Company:	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	1952-03-05	Drill Finish Date:	1952-03-06	Plug Date:	1952-11-13
Log File Date:	1952-04-03	PCW Rcv Date:	1953-10-22	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.00	Depth Well:	126	Depth Water:	45

Water Bearing Stratifications:

Top	Bottom	Description
45	126	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
100	126

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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
	L 02165	SW	NW	NW	02	12S	33E	631049.0	3686799.0 *	

* UTM location was derived from PLSS - see Help

Driller License:		Driller Company:	
Driller Name:		W.H. HOWARD	
Drill Start Date:	1950-07-25	Drill Finish Date:	1950-07-26
Plug Date:			
Log File Date:	1953-06-30	PCW Rcv Date:	1953-06-30
Source:		Shallow	
Pump Type:		Pipe Discharge Size:	
Estimated Yield:			
Casing Size:		Depth Well:	114
Depth Water:			

Water Bearing Stratifications:

Top	Bottom	Description
48	113	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
70	110

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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
	L 09545		NE	SE	34	11S	33E	630735.0	3687698.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	GLENN, CLARK A."CORKY" (LD)		
Drill Start Date:	1984-08-24	Drill Finish Date:	1984-08-24
Plug Date:	1984-11-06		
Log File Date:	1984-09-05	PCW Rcv Date:	
Source:	Shallow		
Pump Type:		Pipe Discharge Size:	
Estimated Yield:	25		
Casing Size:	6.63	Depth Well:	154
Depth Water:	70		

Water Bearing Stratifications:

Top	Bottom	Description
70	150	Other/Unknown

Casing Perforations:

Top	Bottom
125	154

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: 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 8/11/2025 1:04:50 PM

JOB DESCRIPTION

State BT N #1
Lea Co., NM

JOB NUMBER

880-61153-1

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
8/11/2025 1:04:50 PM

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

Client: Crain Environmental
Project/Site: State BT N #1

Laboratory Job ID: 880-61153-1
SDG: Lea Co., NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: State BT N #1

Job ID: 880-61153-1

Job ID: 880-61153-1

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Job Narrative 880-61153-1

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

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

Receipt

The samples were received on 8/5/2025 2:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.9°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-115882 and 880-115945 and analytical batch 880-115929 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: TH-1 (1') (880-61153-1), TH-1 (4') (880-61153-2), TH-2 (4') (880-61153-4), TH-3 (1') (880-61153-5), TH-3 (4') (880-61153-6), TH-4 (1') (880-61153-7), TH-4 (2') (880-61153-8), TH-4 (4') (880-61153-9), (880-60970-A-16-A MB) and (880-60970-A-16-B MDLV). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-115945 and analytical batch 880-115929 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-115929 recovered under the lower control limit for Ethylbenzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported

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

Diesel Range Organics

Method 8015MOD_NM: The method blank for preparation batch 880-115922 and analytical batch 880-116303 contained Diesel Range Organics (Over C10-C28) and Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-115922/3-A). 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.

HPLC/IC

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

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Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-61153-1

Date Collected: 08/04/25 11:15

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/06/25 09:19	08/07/25 03:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/06/25 09:19	08/07/25 03:00	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/06/25 09:19	08/07/25 03:00	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/06/25 09:19	08/07/25 03:00	1
o-Xylene	<0.00158	U *	0.00200	0.00158	mg/Kg		08/06/25 09:19	08/07/25 03:00	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/06/25 09:19	08/07/25 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	08/06/25 09:19	08/07/25 03:00	1
1,4-Difluorobenzene (Surr)	107		70 - 130	08/06/25 09:19	08/07/25 03:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			08/07/25 03:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.7	J	50.0	15.1	mg/Kg			08/09/25 23:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/06/25 07:57	08/09/25 23:39	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 23:39	1
Oil Range Organics (Over C28-C36)	38.7	J B	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/06/25 07:57	08/09/25 23:39	1
o-Terphenyl	124		70 - 130	08/06/25 07:57	08/09/25 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		9.98	0.394	mg/Kg			08/06/25 19:55	1

Client Sample ID: TH-1 (4')

Lab Sample ID: 880-61153-2

Date Collected: 08/04/25 11:20

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		08/06/25 09:19	08/07/25 03:20	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/06/25 09:19	08/07/25 03:20	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		08/06/25 09:19	08/07/25 03:20	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		08/06/25 09:19	08/07/25 03:20	1
o-Xylene	<0.00157	U *	0.00198	0.00157	mg/Kg		08/06/25 09:19	08/07/25 03:20	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		08/06/25 09:19	08/07/25 03:20	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-1 (4')

Lab Sample ID: 880-61153-2

Date Collected: 08/04/25 11:20

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	08/06/25 09:19	08/07/25 03:20	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/06/25 09:19	08/07/25 03:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			08/07/25 03:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.0	J	50.0	15.1	mg/Kg			08/09/25 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/06/25 07:57	08/09/25 23:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 23:54	1
Oil Range Organics (Over C28-C36)	34.0	J B	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/06/25 07:57	08/09/25 23:54	1
o-Terphenyl	127		70 - 130	08/06/25 07:57	08/09/25 23:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		10.0	0.396	mg/Kg			08/06/25 20:12	1

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-61153-3

Date Collected: 08/04/25 11:30

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		08/06/25 09:19	08/07/25 05:10	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/06/25 09:19	08/07/25 05:10	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		08/06/25 09:19	08/07/25 05:10	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		08/06/25 09:19	08/07/25 05:10	1
o-Xylene	<0.00157	U *	0.00198	0.00157	mg/Kg		08/06/25 09:19	08/07/25 05:10	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		08/06/25 09:19	08/07/25 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/06/25 09:19	08/07/25 05:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/06/25 09:19	08/07/25 05:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			08/07/25 05:10	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-61153-3

Date Collected: 08/04/25 11:30

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41.0	J	50.0	15.1	mg/Kg			08/10/25 00:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/06/25 07:57	08/10/25 00:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:09	1
Oil Range Organics (Over C28-C36)	41.0	J B	50.0	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/06/25 07:57	08/10/25 00:09	1
o-Terphenyl	126		70 - 130				08/06/25 07:57	08/10/25 00:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.1		9.96	0.393	mg/Kg			08/06/25 20:18	1

Client Sample ID: TH-2 (4')

Lab Sample ID: 880-61153-4

Date Collected: 08/04/25 11:35

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
o-Xylene	<0.00159	U **	0.00201	0.00159	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/06/25 09:19	08/07/25 05:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				08/06/25 09:19	08/07/25 05:31	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/06/25 09:19	08/07/25 05:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			08/07/25 05:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.1	J	49.9	15.1	mg/Kg			08/10/25 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/06/25 07:57	08/10/25 00:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:24	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-2 (4')

Lab Sample ID: 880-61153-4

Date Collected: 08/04/25 11:35

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

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)	34.1	J B	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/06/25 07:57	08/10/25 00:24	1
o-Terphenyl	125		70 - 130				08/06/25 07:57	08/10/25 00:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.99	J	10.1	0.397	mg/Kg			08/06/25 20:24	1

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-61153-5

Date Collected: 08/04/25 10:20

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
o-Xylene	<0.00157	U *	0.00199	0.00157	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/06/25 09:19	08/07/25 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				08/06/25 09:19	08/07/25 05:51	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/06/25 09:19	08/07/25 05:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/07/25 05:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.6	J	50.0	15.1	mg/Kg			08/10/25 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/06/25 07:57	08/10/25 00:39	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:39	1
Oil Range Organics (Over C28-C36)	40.6	J B	50.0	15.1	mg/Kg		08/06/25 07:57	08/10/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/06/25 07:57	08/10/25 00:39	1
o-Terphenyl	124		70 - 130				08/06/25 07:57	08/10/25 00:39	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-61153-5

Date Collected: 08/04/25 10:20

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		9.96	0.393	mg/Kg			08/06/25 20:29	1

Client Sample ID: TH-3 (4')

Lab Sample ID: 880-61153-6

Date Collected: 08/04/25 10:30

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
o-Xylene	<0.00160	U *	0.00202	0.00160	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		08/06/25 09:19	08/07/25 06:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				08/06/25 09:19	08/07/25 06:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/06/25 09:19	08/07/25 06:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			08/07/25 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.3	J	49.8	15.1	mg/Kg			08/10/25 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/06/25 07:57	08/10/25 01:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:09	1
Oil Range Organics (Over C28-C36)	30.3	J B	49.8	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/06/25 07:57	08/10/25 01:09	1
o-Terphenyl	125		70 - 130				08/06/25 07:57	08/10/25 01:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		10.0	0.396	mg/Kg			08/06/25 20:35	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-61153-7

Date Collected: 08/04/25 10:00

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		08/06/25 09:19	08/07/25 06:32	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/06/25 09:19	08/07/25 06:32	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		08/06/25 09:19	08/07/25 06:32	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		08/06/25 09:19	08/07/25 06:32	1
o-Xylene	<0.00160	U *	0.00202	0.00160	mg/Kg		08/06/25 09:19	08/07/25 06:32	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		08/06/25 09:19	08/07/25 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/06/25 09:19	08/07/25 06:32	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/06/25 09:19	08/07/25 06:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			08/07/25 06:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.0	J	49.9	15.1	mg/Kg			08/10/25 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/06/25 07:57	08/10/25 01:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:24	1
Oil Range Organics (Over C28-C36)	39.0	J B	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/06/25 07:57	08/10/25 01:24	1
o-Terphenyl	124		70 - 130	08/06/25 07:57	08/10/25 01:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470		9.96	0.393	mg/Kg			08/06/25 20:41	1

Client Sample ID: TH-4 (2')

Lab Sample ID: 880-61153-8

Date Collected: 08/04/25 10:05

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		08/06/25 09:19	08/07/25 06:53	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/06/25 09:19	08/07/25 06:53	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/06/25 09:19	08/07/25 06:53	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/06/25 09:19	08/07/25 06:53	1
o-Xylene	<0.00157	U *	0.00199	0.00157	mg/Kg		08/06/25 09:19	08/07/25 06:53	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/06/25 09:19	08/07/25 06:53	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-4 (2')

Lab Sample ID: 880-61153-8

Date Collected: 08/04/25 10:05

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	08/06/25 09:19	08/07/25 06:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/06/25 09:19	08/07/25 06:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/07/25 06:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.9	J	49.9	15.1	mg/Kg			08/10/25 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/06/25 07:57	08/10/25 01:39	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:39	1
Oil Range Organics (Over C28-C36)	30.9	J B	49.9	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/06/25 07:57	08/10/25 01:39	1
o-Terphenyl	127		70 - 130	08/06/25 07:57	08/10/25 01:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	386		10.1	0.398	mg/Kg			08/06/25 20:46	1

Client Sample ID: TH-4 (4')

Lab Sample ID: 880-61153-9

Date Collected: 08/04/25 10:10

Matrix: Solid

Date Received: 08/05/25 14:45

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/06/25 09:19	08/07/25 07:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/06/25 09:19	08/07/25 07:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/06/25 09:19	08/07/25 07:13	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		08/06/25 09:19	08/07/25 07:13	1
o-Xylene	<0.00158	U *	0.00200	0.00158	mg/Kg		08/06/25 09:19	08/07/25 07:13	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		08/06/25 09:19	08/07/25 07:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	08/06/25 09:19	08/07/25 07:13	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/06/25 09:19	08/07/25 07:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			08/07/25 07:13	1

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Client Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-4 (4')
Date Collected: 08/04/25 10:10
Date Received: 08/05/25 14:45
Sample Depth: 4'

Lab Sample ID: 880-61153-9
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.7	J	49.8	15.1	mg/Kg			08/10/25 01:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		08/06/25 07:57	08/10/25 01:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:54	1
Oil Range Organics (Over C28-C36)	29.7	J B	49.8	15.1	mg/Kg		08/06/25 07:57	08/10/25 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/06/25 07:57	08/10/25 01:54	1
o-Terphenyl	125		70 - 130				08/06/25 07:57	08/10/25 01:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		9.90	0.391	mg/Kg			08/07/25 04:08	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-61152-A-1-E MS	Matrix Spike	116	99				
880-61152-A-1-F MSD	Matrix Spike Duplicate	114	99				
880-61153-1	TH-1 (1')	141 S1+	107				
880-61153-2	TH-1 (4')	137 S1+	110				
880-61153-3	TH-2 (1')	116	101				
880-61153-4	TH-2 (4')	132 S1+	110				
880-61153-5	TH-3 (1')	132 S1+	106				
880-61153-6	TH-3 (4')	141 S1+	108				
880-61153-7	TH-4 (1')	136 S1+	109				
880-61153-8	TH-4 (2')	134 S1+	102				
880-61153-9	TH-4 (4')	148 S1+	113				
LCS 880-115945/1-A	Lab Control Sample	116	103				
LCSD 880-115945/2-A	Lab Control Sample Dup	121	98				
MB 880-115882/5-A	Method Blank	167 S1+	92				
MB 880-115945/5-A	Method Blank	196 S1+	99				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-61152-A-1-B MS	Matrix Spike	107	110				
880-61152-A-1-C MSD	Matrix Spike Duplicate	108	111				
880-61153-1	TH-1 (1')	108	124				
880-61153-2	TH-1 (4')	109	127				
880-61153-3	TH-2 (1')	108	126				
880-61153-4	TH-2 (4')	108	125				
880-61153-5	TH-3 (1')	107	124				
880-61153-6	TH-3 (4')	108	125				
880-61153-7	TH-4 (1')	105	124				
880-61153-8	TH-4 (2')	108	127				
880-61153-9	TH-4 (4')	107	125				
LCS 880-115922/2-A	Lab Control Sample	121	129				
LCSD 880-115922/3-A	Lab Control Sample Dup	126	131 S1+				
MB 880-115922/1-A	Method Blank	100	119				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-115882/5-A

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/05/25 13:07	08/06/25 12:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/05/25 13:07	08/06/25 12:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/05/25 13:07	08/06/25 12:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/05/25 13:07	08/06/25 12:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/05/25 13:07	08/06/25 12:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/05/25 13:07	08/06/25 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	08/05/25 13:07	08/06/25 12:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/05/25 13:07	08/06/25 12:10	1

Lab Sample ID: MB 880-115945/5-A

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115945

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/06/25 09:19	08/06/25 23:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/06/25 09:19	08/06/25 23:48	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/06/25 09:19	08/06/25 23:48	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/06/25 09:19	08/06/25 23:48	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/06/25 09:19	08/06/25 23:48	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/06/25 09:19	08/06/25 23:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130	08/06/25 09:19	08/06/25 23:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/06/25 09:19	08/06/25 23:48	1

Lab Sample ID: LCS 880-115945/1-A

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1030		mg/Kg		103	70 - 130
Toluene	0.100	0.09641		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09514		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2389		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1315	*+	mg/Kg		131	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-115945/2-A

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1033		mg/Kg		103	70 - 130	0	35

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QC Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-115945/2-A

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09374		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2474		mg/Kg		124	70 - 130	3	35
o-Xylene	0.100	0.1365	*+	mg/Kg		136	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-61152-A-1-E MS

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09860		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.100	0.09817		mg/Kg		98	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.09203		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2269		mg/Kg		113	70 - 130
o-Xylene	<0.00158	U *+	0.100	0.1247		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-61152-A-1-F MSD

Matrix: Solid

Analysis Batch: 115929

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115945

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09705		mg/Kg		97	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09045		mg/Kg		90	70 - 130	8	35
Ethylbenzene	<0.00109	U	0.100	0.07749		mg/Kg		77	70 - 130	17	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1888		mg/Kg		94	70 - 130	18	35
o-Xylene	<0.00158	U *+	0.100	0.1199		mg/Kg		120	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-115922/1-A

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/06/25 07:57	08/09/25 08:13	1

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QC Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-115922/1-A

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 115922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 08:13	1
Oil Range Organics (Over C28-C36)	23.71	J	50.0	15.1	mg/Kg		08/06/25 07:57	08/09/25 08:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/06/25 07:57	08/09/25 08:13	1
o-Terphenyl	119		70 - 130				08/06/25 07:57	08/09/25 08:13	1

Lab Sample ID: LCS 880-115922/2-A

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 115922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1042		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	986.2		mg/Kg		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	121		70 - 130				
o-Terphenyl	129		70 - 130				

Lab Sample ID: LCSD 880-115922/3-A

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 115922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1064		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	126		70 - 130						
o-Terphenyl	131	S1+	70 - 130						

Lab Sample ID: 880-61152-A-1-B MS

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 115922

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	998	837.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	998	892.4		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	110		70 - 130						

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-61152-A-1-C MSD

Matrix: Solid

Analysis Batch: 116303

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 115922

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	998	868.9		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<15.1	U	998	918.7		mg/Kg		92	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	111		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115934/1-A

Matrix: Solid

Analysis Batch: 115981

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			08/06/25 17:56	1

Lab Sample ID: LCS 880-115934/2-A

Matrix: Solid

Analysis Batch: 115981

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.5		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-115934/3-A

Matrix: Solid

Analysis Batch: 115981

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	228.9		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-61152-A-4-C MS

Matrix: Solid

Analysis Batch: 115981

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.33	J	249	235.2		mg/Kg		92	90 - 110

Lab Sample ID: 880-61152-A-4-D MSD

Matrix: Solid

Analysis Batch: 115981

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.33	J	249	235.7		mg/Kg		92	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-115982/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 116003									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			08/07/25 03:51	1

Lab Sample ID: LCS 880-115982/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 116003									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	232.4		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-115982/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 116003									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.4		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 115882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-115882/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 115929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	8021B	115945
880-61153-2	TH-1 (4')	Total/NA	Solid	8021B	115945
880-61153-3	TH-2 (1')	Total/NA	Solid	8021B	115945
880-61153-4	TH-2 (4')	Total/NA	Solid	8021B	115945
880-61153-5	TH-3 (1')	Total/NA	Solid	8021B	115945
880-61153-6	TH-3 (4')	Total/NA	Solid	8021B	115945
880-61153-7	TH-4 (1')	Total/NA	Solid	8021B	115945
880-61153-8	TH-4 (2')	Total/NA	Solid	8021B	115945
880-61153-9	TH-4 (4')	Total/NA	Solid	8021B	115945
MB 880-115882/5-A	Method Blank	Total/NA	Solid	8021B	115882
MB 880-115945/5-A	Method Blank	Total/NA	Solid	8021B	115945
LCS 880-115945/1-A	Lab Control Sample	Total/NA	Solid	8021B	115945
LCSD 880-115945/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115945
880-61152-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	115945
880-61152-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	115945

Prep Batch: 115945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	5035	
880-61153-2	TH-1 (4')	Total/NA	Solid	5035	
880-61153-3	TH-2 (1')	Total/NA	Solid	5035	
880-61153-4	TH-2 (4')	Total/NA	Solid	5035	
880-61153-5	TH-3 (1')	Total/NA	Solid	5035	
880-61153-6	TH-3 (4')	Total/NA	Solid	5035	
880-61153-7	TH-4 (1')	Total/NA	Solid	5035	
880-61153-8	TH-4 (2')	Total/NA	Solid	5035	
880-61153-9	TH-4 (4')	Total/NA	Solid	5035	
MB 880-115945/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115945/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115945/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61152-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-61152-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	Total BTEX	
880-61153-2	TH-1 (4')	Total/NA	Solid	Total BTEX	
880-61153-3	TH-2 (1')	Total/NA	Solid	Total BTEX	
880-61153-4	TH-2 (4')	Total/NA	Solid	Total BTEX	
880-61153-5	TH-3 (1')	Total/NA	Solid	Total BTEX	
880-61153-6	TH-3 (4')	Total/NA	Solid	Total BTEX	
880-61153-7	TH-4 (1')	Total/NA	Solid	Total BTEX	
880-61153-8	TH-4 (2')	Total/NA	Solid	Total BTEX	
880-61153-9	TH-4 (4')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 115922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-61153-2	TH-1 (4')	Total/NA	Solid	8015NM Prep	
880-61153-3	TH-2 (1')	Total/NA	Solid	8015NM Prep	
880-61153-4	TH-2 (4')	Total/NA	Solid	8015NM Prep	
880-61153-5	TH-3 (1')	Total/NA	Solid	8015NM Prep	
880-61153-6	TH-3 (4')	Total/NA	Solid	8015NM Prep	
880-61153-7	TH-4 (1')	Total/NA	Solid	8015NM Prep	
880-61153-8	TH-4 (2')	Total/NA	Solid	8015NM Prep	
880-61153-9	TH-4 (4')	Total/NA	Solid	8015NM Prep	
MB 880-115922/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115922/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-115922/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61152-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	8015B NM	115922
880-61153-2	TH-1 (4')	Total/NA	Solid	8015B NM	115922
880-61153-3	TH-2 (1')	Total/NA	Solid	8015B NM	115922
880-61153-4	TH-2 (4')	Total/NA	Solid	8015B NM	115922
880-61153-5	TH-3 (1')	Total/NA	Solid	8015B NM	115922
880-61153-6	TH-3 (4')	Total/NA	Solid	8015B NM	115922
880-61153-7	TH-4 (1')	Total/NA	Solid	8015B NM	115922
880-61153-8	TH-4 (2')	Total/NA	Solid	8015B NM	115922
880-61153-9	TH-4 (4')	Total/NA	Solid	8015B NM	115922
MB 880-115922/1-A	Method Blank	Total/NA	Solid	8015B NM	115922
LCS 880-115922/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115922
LCSD 880-115922/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115922
880-61152-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	115922
880-61152-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	115922

Analysis Batch: 116385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Total/NA	Solid	8015 NM	
880-61153-2	TH-1 (4')	Total/NA	Solid	8015 NM	
880-61153-3	TH-2 (1')	Total/NA	Solid	8015 NM	
880-61153-4	TH-2 (4')	Total/NA	Solid	8015 NM	
880-61153-5	TH-3 (1')	Total/NA	Solid	8015 NM	
880-61153-6	TH-3 (4')	Total/NA	Solid	8015 NM	
880-61153-7	TH-4 (1')	Total/NA	Solid	8015 NM	
880-61153-8	TH-4 (2')	Total/NA	Solid	8015 NM	
880-61153-9	TH-4 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Soluble	Solid	DI Leach	
880-61153-2	TH-1 (4')	Soluble	Solid	DI Leach	
880-61153-3	TH-2 (1')	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 115934 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-4	TH-2 (4')	Soluble	Solid	DI Leach	
880-61153-5	TH-3 (1')	Soluble	Solid	DI Leach	
880-61153-6	TH-3 (4')	Soluble	Solid	DI Leach	
880-61153-7	TH-4 (1')	Soluble	Solid	DI Leach	
880-61153-8	TH-4 (2')	Soluble	Solid	DI Leach	
MB 880-115934/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115934/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115934/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61152-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-61152-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 115981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-1	TH-1 (1')	Soluble	Solid	300.0	115934
880-61153-2	TH-1 (4')	Soluble	Solid	300.0	115934
880-61153-3	TH-2 (1')	Soluble	Solid	300.0	115934
880-61153-4	TH-2 (4')	Soluble	Solid	300.0	115934
880-61153-5	TH-3 (1')	Soluble	Solid	300.0	115934
880-61153-6	TH-3 (4')	Soluble	Solid	300.0	115934
880-61153-7	TH-4 (1')	Soluble	Solid	300.0	115934
880-61153-8	TH-4 (2')	Soluble	Solid	300.0	115934
MB 880-115934/1-A	Method Blank	Soluble	Solid	300.0	115934
LCS 880-115934/2-A	Lab Control Sample	Soluble	Solid	300.0	115934
LCSD 880-115934/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115934
880-61152-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	115934
880-61152-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	115934

Leach Batch: 115982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-9	TH-4 (4')	Soluble	Solid	DI Leach	
MB 880-115982/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115982/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115982/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61153-9 MS	TH-4 (4')	Soluble	Solid	DI Leach	
880-61153-9 MSD	TH-4 (4')	Soluble	Solid	DI Leach	

Analysis Batch: 116003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61153-9	TH-4 (4')	Soluble	Solid	300.0	115982
MB 880-115982/1-A	Method Blank	Soluble	Solid	300.0	115982
LCS 880-115982/2-A	Lab Control Sample	Soluble	Solid	300.0	115982
LCSD 880-115982/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115982
880-61153-9 MS	TH-4 (4')	Soluble	Solid	300.0	115982
880-61153-9 MSD	TH-4 (4')	Soluble	Solid	300.0	115982

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-61153-1

Date Collected: 08/04/25 11:15

Matrix: Solid

Date Received: 08/05/25 14:45

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	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 03:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/09/25 23:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/09/25 23:39	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 19:55	CS	EET MID

Client Sample ID: TH-1 (4')

Lab Sample ID: 880-61153-2

Date Collected: 08/04/25 11:20

Matrix: Solid

Date Received: 08/05/25 14:45

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	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 03:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 03:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/09/25 23:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/09/25 23:54	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:12	CS	EET MID

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-61153-3

Date Collected: 08/04/25 11:30

Matrix: Solid

Date Received: 08/05/25 14:45

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	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 05:10	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 00:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 00:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:18	CS	EET MID

Client Sample ID: TH-2 (4')

Lab Sample ID: 880-61153-4

Date Collected: 08/04/25 11:35

Matrix: Solid

Date Received: 08/05/25 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 05:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 05:31	SA	EET MID

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Lab Chronicle

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-2 (4')

Lab Sample ID: 880-61153-4

Date Collected: 08/04/25 11:35

Matrix: Solid

Date Received: 08/05/25 14:45

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			116385	08/10/25 00:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 00:24	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:24	CS	EET MID

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-61153-5

Date Collected: 08/04/25 10:20

Matrix: Solid

Date Received: 08/05/25 14:45

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	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 05:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 05:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 00:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 00:39	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:29	CS	EET MID

Client Sample ID: TH-3 (4')

Lab Sample ID: 880-61153-6

Date Collected: 08/04/25 10:30

Matrix: Solid

Date Received: 08/05/25 14:45

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	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 06:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 06:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 01:09	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 01:09	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:35	CS	EET MID

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-61153-7

Date Collected: 08/04/25 10:00

Matrix: Solid

Date Received: 08/05/25 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 06:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 06:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 01:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 01:24	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Client Sample ID: TH-4 (1')

Date Collected: 08/04/25 10:00

Date Received: 08/05/25 14:45

Lab Sample ID: 880-61153-7

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	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:41	CS	EET MID

Client Sample ID: TH-4 (2')

Date Collected: 08/04/25 10:05

Date Received: 08/05/25 14:45

Lab Sample ID: 880-61153-8

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			5.03 g	5 mL	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 06:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 06:53	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 01:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 01:39	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115934	08/06/25 08:38	SI	EET MID
Soluble	Analysis	300.0		1			115981	08/06/25 20:46	CS	EET MID

Client Sample ID: TH-4 (4')

Date Collected: 08/04/25 10:10

Date Received: 08/05/25 14:45

Lab Sample ID: 880-61153-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	115945	08/06/25 09:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115929	08/07/25 07:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116141	08/07/25 07:13	SA	EET MID
Total/NA	Analysis	8015 NM		1			116385	08/10/25 01:54	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	115922	08/06/25 07:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116303	08/10/25 01:54	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	115982	08/06/25 12:01	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	116003	08/07/25 04:08	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Crain Environmental
Project/Site: State BT N #1

Job ID: 880-61153-1
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 BT N #1

Job ID: 880-61153-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-61153-1	TH-1 (1')	Solid	08/04/25 11:15	08/05/25 14:45	1'
880-61153-2	TH-1 (4')	Solid	08/04/25 11:20	08/05/25 14:45	4'
880-61153-3	TH-2 (1')	Solid	08/04/25 11:30	08/05/25 14:45	1'
880-61153-4	TH-2 (4')	Solid	08/04/25 11:35	08/05/25 14:45	4'
880-61153-5	TH-3 (1')	Solid	08/04/25 10:20	08/05/25 14:45	1'
880-61153-6	TH-3 (4')	Solid	08/04/25 10:30	08/05/25 14:45	4'
880-61153-7	TH-4 (1')	Solid	08/04/25 10:00	08/05/25 14:45	1'
880-61153-8	TH-4 (2')	Solid	08/04/25 10:05	08/05/25 14:45	2'
880-61153-9	TH-4 (4')	Solid	08/04/25 10:10	08/05/25 14:45	4'



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

Environment Testing
Xenco



880-61153 Chain of Custody

of 1

Project Manager: <u>Cindy Crain</u>		Bill to: (if different) <u>Nicole Cornewell</u>	
Company Name: <u>Crain Environmental</u>		Company Name: <u>BXP</u>	
Address: <u>2925 E. 17th St.</u>		Address: <u>11757 Katy Frwy, Ste. 475</u>	
City, State ZIP: <u>Odessa, TX 79701</u>		City, State ZIP: <u>Houston, TX 77079</u>	
Phone: <u>(575) 441-7244</u>		Email: <u>Cindy.Crain@gmail.com</u>	

Project Name: <u>State BT N #1</u>		Turn Around		Pres. Code	
Project Number: <u>-</u>		☒ Routine ☐ Rush			
Project Location: <u>Lea Co., NM</u>		Due Date:			
Sampler's Name: <u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4:30pm			
PO #:					

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
TH-1 (1')	S	8/4/25	1115	1'	G	1	TPH 8015M BTEX Chlorides			None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
TH-1 (4')			1120	4'							
TH-2 (1')			1130	1'							
TH-2 (4')			1135	4'							
TH-3 (1')			1020	1'							
TH-3 (4')			1030	4'							
TH-4 (1')			1000	1'							
TH-4 (2')			1005	2'							
TH-4 (4')			1010	4'							

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr 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>	8/5/25 1445			

Revised Date: 06/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-61153-1

SDG Number: Lea Co., NM

Login Number: 61153

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 C: Photographic Documentation

Appendix C
BXP Operating, LLC
State BT N #001 - Incident #nRM2029344863
August 4, 2025



View of Battery sign.



View to W of TH-1.



View to W of TH-2.



View to W of TH-3.



View to W of TH-4.



View to E of TH-1 through TH-4.



Appendix D: NMSLO Cultural Resources Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



Appendix E: Biological Desktop Review



United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542



In Reply Refer To:
Project Code: 2025-0089256
Project Name: State BT N #001

04/28/2025 19:26:43 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 *et seq.*), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program:
<https://www.emnrd.nm.gov/sfd/rare-plants/>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>. We also recommend review of the Birds of Conservation Concern list (<https://www.fws.gov/media/birds-conservation-concern-2021>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <https://www.fws.gov/partner/council-conservation-migratory-birds> for information regarding the implementation of Executive Order 13186.

Project code: 2025-0089256

04/28/2025 19:26:43 UTC

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
(505) 346-2525

Project code: 2025-0089256

04/28/2025 19:26:43 UTC

PROJECT SUMMARY

Project Code: 2025-0089256

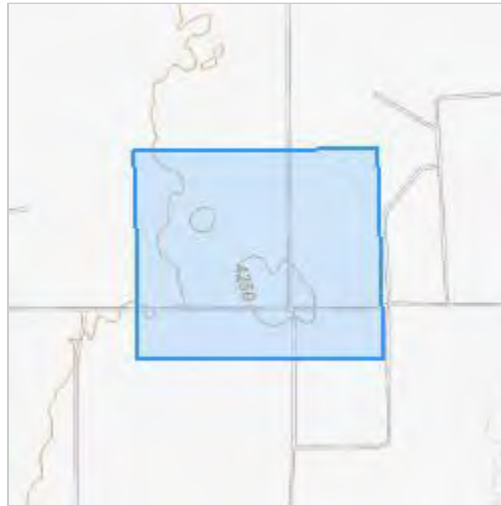
Project Name: State BT N #001

Project Type: General NRDAR/Spill Response/Environmental Contaminants

Project Description: Soil remediation

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@33.317367950000005,-103.5944221019289,14z>



Counties: Lea County, New Mexico

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2025-0089256

04/28/2025 19:26:43 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.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 518968

QUESTIONS

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 518968
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2029344863
Incident Name	NRM2029344863 STATE BT N #1 BATTERY @ 30-025-01012
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-01012] STATE BT N #001

Location of Release Source

Please answer all the questions in this group.

Site Name	STATE BT N #1 BATTERY
Date Release Discovered	10/14/2020
Surface Owner	State

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 30 BBL Recovered: 30 BBL Lost: 0 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.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 518968

QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 518968
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

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: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpltd.com Date: 10/22/2025
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Sante Fe Main Office
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General Information
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Oil Conservation Division
1220 S. St Francis Dr.
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Action 518968

QUESTIONS (continued)

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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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	1470
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	41
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/08/2025
On what date will (or did) the final sampling or liner inspection occur	12/17/2025
On what date will (or was) the remediation complete(d)	12/30/2025
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	23
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	23

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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Action 518968

QUESTIONS (continued)

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	Action Number: 518968
	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	fAB0000000061 TNM-55-95
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	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: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpiltd.com Date: 10/22/2025
<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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Action 518968

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 518968

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	505875
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/17/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	2180

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 518968

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Site Characterization and Remediation Plan approved.	10/28/2025