

<b>Location:</b>	<b>Big Eddy Unit 30E Battery</b>	
<b>Spill Date:</b>	<b>11/3/2024</b>	
<b>Area 3</b>		
Approximate Area =	3456.00	sq. ft.
Average Saturation (or depth) of spill =	5.00	inches

Average Porosity Factor =	0.03
---------------------------	------

<b>VOLUME OF LEAK</b>		
Total Crude Oil =	0.00	bbls
Total Produced Water =	17.69	bbls

<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	0.00	bbls
Total Produced Water =	17.69	bbls

<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	0.00	bbls
Total Produced Water =	10.00	bbls

# Deferral Request Report

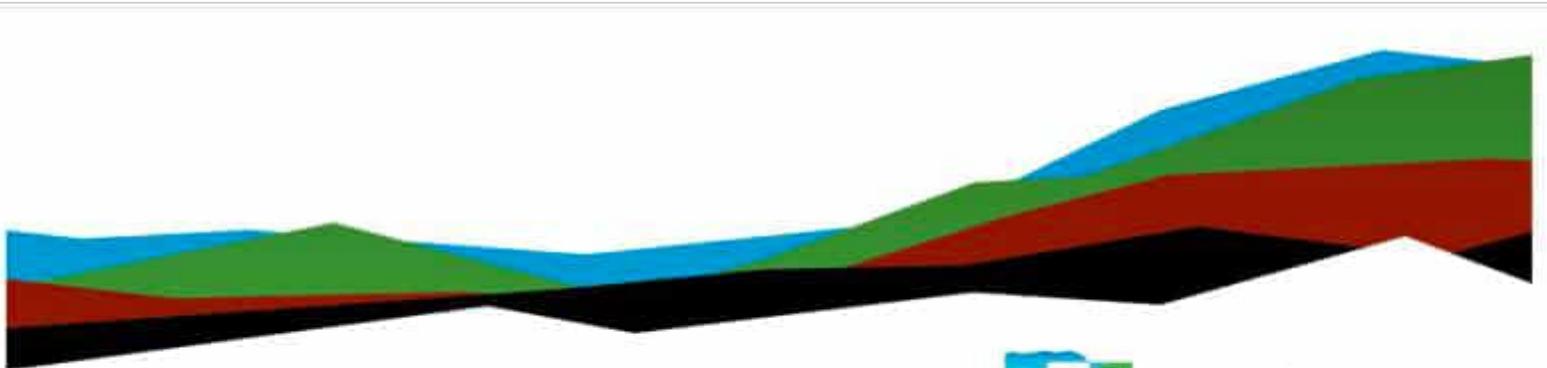
Big Eddy Unit 30E Battery

NMOCD I.D. # nAPP2431163462

Eddy County, New Mexico

November 17, 2025 | Project No. KH247055

Prepared for:  
XTO Energy  
3104 E Greene Street  
Carlsbad, NM 88220



Nationwide  
[Terracon.com](https://www.terracon.com)

- Facilities
- Environmental
- Geotechnical
- Materials



5847 50<sup>th</sup> Street  
Lubbock, TX 79424  
P (806) 300-0140  
F (806) 797-0947  
[Terracon.com](http://Terracon.com)

November 7, 2025

XTO Energy  
3104 E Greene Street  
Carlsbad, NM 88220

**Attn:** New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico, NM 87505

**RE:** Deferral Request Report  
XTO Energy  
Big Eddy Unit 30E Battery  
Unit I, Section 15, Township 20 South, Range 31 East  
32.570145°, -103.852192°  
Eddy County, New Mexico  
NMOCD Incident No. nAPP2431163462  
Terracon Project No. KH247055

Terracon Consultants, Inc. (Terracon) is pleased to submit this Closure Report on behalf of XTO Energy (XTO) for the site referenced above. The report is prepared in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations governing Oil and Gas Releases (19.15.29 NMAC). A brief chronology of project history is included below.

- **November 06, 2024:** A release of produced water was reported by XTO at the Big Eddy Unit 30E Battery.
- **November 13, 2024:** Terracon conducted an investigation to define the horizontal and vertical extent of the release.
- **December 3, 2024:** Terracon completed remedial actions and collected closure samples at the site.
- **February 12 2025:** XTO submitted the Remediation Action Plan (RAP) to the NMOCD requesting additional time to allow completion of an exploratory boring to evaluate depth to groundwater.
- **June 19, 2025:** The exploratory boring is completed, with groundwater measured at 35 feet below grade surface.
- **September 8, 2025:** Terracon returned to the site to complete remediation. to the strictest criteria and were unable to complete remediation activities due to the excavation's proximity to operational equipment. Terracon collected final confirmation and delineation samples to request a deferral of remaining impacts until time of abandonment.

We believe the work described in the attached deferral request report completes NMAC 19.15.29.1.C (2) requirements for the site, and we respectfully request NMOCD consider

Deferral Request Report  
Big Eddy Unit 30E Battery | Eddy County, New Mexico  
November 7, 2025 | Terracon Project No. KH247055



deferral of the remediation/reclamation of incident # nAPP24311634629 at time of abandonment (TOA).

Terracon appreciates this opportunity to provide environmental services to XTO Energy. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,  
**Terracon**

A handwritten signature in black ink that reads 'Austin Worley' in a cursive script.

Austin Worley  
Assistant Project Manager

A handwritten signature in black ink that reads 'John Grams' in a cursive script.

John Grams, PG (TX)  
Senior Geologist

Deferral Request Report  
Big Eddy Unit 30E Battery | Eddy County, New Mexico  
November 7, 2025 | Terracon Project No. KH247055



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- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Location Map
- Exhibit 3 – NMOSE Pod Location Map
- Exhibit 4 – Regulatory Criteria Map
- Exhibit 5 – Designated Wetlands Area Map
- Exhibit 6 – Cave Karst Public UCP Map
- Exhibit 7 – Delineation Sample Location Map
- Exhibit 8 – Confirmation Sample Location Map (2024)
- Exhibit 9 – Confirmation Sample Location Map (2025)

### TABLES & Attachments

- Table 1 – Delineation Sample Results
- Table 2 – Confirmation Sample Results
- Attachment 1 – NMOSE Well Log Report

### APPENDICES

- Appendix A – Photographic Log
- Appendix B – Laboratory Analytical Reports and Chain of Custody
- Appendix C – Terracon Standard of Care, Limitation, and Reliance

Deferral Request Report  
 Big Eddy Unit 30E Battery | Eddy County, New Mexico  
 November 7, 2025 | Terracon Project No. KH247055



## 1.0 Site Information

The following table provides detailed information regarding the Remediation information for the on-pad produced water and crude oil release at the Big Eddy Unit 30E Battery site in Eddy County, New Mexico.

Required Information	Site and Release information	
Responsible Party:	The site is operated by XTO Energy OGRID #: 5380	
Local Contact:	Contact: Mr. Colton Brown	P: (575) 689-7597 E: <a href="mailto:colton.brown@exxonmobil.com">colton.brown@exxonmobil.com</a>
Site Name API #	Big Eddy Unit 30E Battery	
Facility Description:	Big Eddy Unit 30E Battery, Incident No. nAPP2431163462 is a battery located in Eddy County, New Mexico. It is an area located within Unit I, Section 15, Township 20 South, Range 31 East, approximately 24 miles east of Carlsbad, New Mexico. The area around the site is predominantly undeveloped native Federal-owned pastureland. A Topographic Map and Site location Map are included in Exhibit 1, and Exhibit 2, respectively.	
Lessee:	XTO Energy, Inc	
NMOCD Incidents:	Produced water from a corroded fitting on a flowline.	
Type of Discharge:	Produced Water / Incident ID No: nAPP2431163462	
Quantity Spilled:	Total Fluids: 17 bbls	Volume recovered: 10 bbls
Site Characteristics:	Relatively flat with drainage following the natural ground surface; sloping very gently to the northeast.	
Immediate Corrective Actions:	Upon the discovery of the release, a vacuum truck was dispatched to recover any remaining fluids that had not soaked into the caliche pad.	

## 2.0 General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
<b>Groundwater</b> NMOSE Pod Location Map (Exhibit 3)	<u>Boring Information:</u> (C-2068-POD1) <u>Depth of Well:</u> 55 ft. bgs <u>Depth to Water:</u> 35 ft. bgs <u>Distance to Well:</u> 300 feet to the northwest on pad <u>Date Drilled:</u> June 19, 2024. NMOSE Well Log Report is included as Appendix B, Attachment 1. <u>Groundwater Quality:</u> Groundwater in the area of the site is predominately used for agriculture, industrial, or domestic use.

Deferral Request Report  
 Big Eddy Unit 30E Battery | Eddy County, New Mexico  
 November 7, 2025 | Terracon Project No. KH247055



<b>Surface Water Assessment (refer to Regulatory Criteria Map Exhibit 4)</b>	Distance to nearest significant watercourse	The nearest wetland identified in the area of the site is a freshwater emergent wetland located approximately 0.65 miles northwest of the site. The Pecos River is 13.5 miles southwest.	
	YES	NO	
		NO	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
		NO	Within 200 feet of any lakebed, sinkhole or playa lake
		NO	within 300 feet from an occupied permanent residence, school, hospital, institution or church
		NO	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
		NO	Within 1,000 feet of any fresh water well or spring
		NO	Within incorporated municipal boundaries or fresh water well field
		NO	Within 300 feet of a wetland
		NO	Within the area overlying a subsurface mine
		NO	Within an unstable area
		NO	Within a 100 year floodplain Comment: FEMA Flood Map indicates site is in Zone X, areas determined to be outside the 0.2 % annual chance floodplain.
<b>100-Year Flood Plain</b>	This site is located outside of the 100-year flood plain.		
<b>Karst Characterization</b>  Cave Karst Public UCP Map – (Exhibit 6)	A review of the geospatial data obtained from the Bureau of Land Management (BLM) Carlsbad Field Office website indicated that the site is within an area of low risk for Karst formations, as indicated in the Cave Karst Public UCP Map (Exhibit 6).		

### 3.0 Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). Standards governing the remediation

Deferral Request Report  
Big Eddy Unit 30E Battery | Eddy County, New Mexico  
November 7, 2025 | Terracon Project No. KH247055



and reclamation of sites impacted by releases from oil and gas exploration and production activities are contained in 19.15.29 NMAC.

## Closure Criteria for Soils Impacted by a Release

The below remediation limits for BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene, chlorides and Total Petroleum Hydrocarbons (TPH) (GRO+DRO+MRO), are defined within New Mexico Administration Code (NMAC) 19.15.29.12 and in the NMOCD guidance document "Procedures for Implementation of the Spill Rule" dated September 6, 2019.:

Parameters	Closure Criteria	Analytical Method
Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX)	50 mg/kg	EPA Method 8021B
Benzene	10 mg/kg	EPA Method 8021B
Chlorides	600 mg/kg	EPA Method 300
Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO	100 mg/kg	EPA Method 8015M

## 4.0 Site Assessment/Delineation

Initial site assessment activities were conducted on November 13, 2024, to evaluate the extent of impacts resulting from the release. The area affected was identified through visual observation and estimated to be approximately 1,993 square feet. A total of 14 delineation soil samples were collected from 7 locations (**Exhibit 7**). Three vertical delineation samples were collected from sample locations DSV-01 through DSV-03 and four horizontal delineation samples were collected from sample locations DSH-01 through DSH-04. The soil samples were collected using a hand auger from depths ranging from 0.5-feet below grade surface (bgs) to 5-feet bgs and were submitted to Cardinal Laboratories to be analyzed for BTEX, Chloride and TPH.

Three soil borings were advanced in the central area of the release (DSV-01, DSV-02, DSV-03). Samples from the 0.5 ft level at all three locations exceeded closure criteria for chloride, while BTEX and TPH in these samples were below detection limits. Chloride concentrations in samples from 2.0 to 5.0 feet bgs at these locations were reported below the closure criteria of 600 mg/kg. These results confirm the vertical extent of impacts has been defined at the release location.

Four additional borings were advanced around the perimeter of the release area to define the horizontal extent of impacts (DSH-01, DSH-02, DSH-03, DSH-04). Chloride concentrations in soil samples collected from 0.5 ft bgs and 1.0 ft bgs at these locations were below the closure criteria of 600 mg/kg. BTEX and TPH were below detection limits in all samples. These results confirm the horizontal extent of impacts has been defined.

Deferral Request Report  
Big Eddy Unit 30E Battery | Eddy County, New Mexico  
November 7, 2025 | Terracon Project No. KH247055



The delineation sampling shows that soil impacts above closure criteria are limited to the soil in an area directly around the inferred release area (DSV-01 and DSV-02). The delineation samples collected outside the inferred release area (DSH-01, DSH-02, and DSH-03) reported results below the applicable closure criteria (Exhibit 7). Thus, the vertical and horizontal extent of the release has been delineated.

## 5.0 Closure Activities

Following the delineation sampling a crew was mobilized on December 1, 2024 to excavate impacted soils from the area identified at the release location and shown on **Exhibit 7**. 74 yards were excavated from the area shown on **Exhibit 8**. Soil samples collected during the excavation identified areas with chloride concentrations above closure criteria in areas that had not been anticipated. These sample results are shown on Exhibit 9 and Table 2. It was anticipated that the original confirmation samples would be sufficient for closure, but following the installation of the exploratory boring it was determined that an additional remediation effort would be warranted.

On September 05, 2025, Terracon mobilized to the site and removed additional impacted soil after the installation of an exploratory boring altered the Closure Criteria for the site. Due to limited accessibility to the release area between the horizontal tanks and proximity to steel flowlines, assessment of vertical extent of impact was conducted using a hand auger and a backhoe bucket to collect two soil samples at an approximate depths of 9 feet bgs and 10 feet bgs. The impacted soils from surface to 6 feet bgs were excavated and disposed of at Lea Land Landfill. The depth of the excavation and proximity to equipment that is crucial to the operation of the tank battery, resulted in a lack of adequate area to safely excavate the remaining impacted soil. Terracon in accordance with OSHA regulation **"1926 Subpart P – Excavations"** under **29 CFR Part 1926: Safety and Health Regulations for Construction**.

On September 09, 2025, a total of seven confirmation soil samples were collected from the floor and walls from seven locations (CSF-14 through CSF-017 and CSW-05 through CSW-07) from surface to 9 feet bgs, to determine the remaining constituents that would be deferred until time of abandonment. BTEX, Chloride and TPH concentrations were either below the laboratory detection limits or below NMOCD Closure Criteria in one of the sidewall samples and the two deepest floor samples. The material remaining in place and its proximity to equipment that is crucial to the operation of the tank battery, resulted in a lack of adequate area to safely excavate the remaining impacted soil. Terracon in accordance with OSHA regulation **"1926 Subpart P – Excavations"** under **29 CFR Part 1926: Safety and Health Regulations for Construction**. A Confirmation Sample Map depicting the confirmation sample locations and analytical results is included in Exhibit 8. Photographs of the project site are included in Appendix A. Confirmation sample results are provided in Table 2. The laboratory analytical reports along with the chain of custody are provided in Appendix B. Terracon's Standard of Care, Limitations and Reliance is included as Appendix C.

Deferral Request Report  
Big Eddy Unit 30E Battery | Eddy County, New Mexico  
November 7, 2025 | Terracon Project No. KH247055



## 6.0 Conclusions

Terracon, on behalf of XTO Energy, Inc has completed an assessment of the impacted area that remains inaccessible at the at the Big Eddy Unit 30E Battery location. The delineation confirms that the affected area exceeding the NMOCD Closure Criteria is fully contained within the footprint provided and is limited to the lower three feet of soil. The impacted zone measures approximately 900 square feet to a depth of 6 feet bgs to 9 feet bgs, totaling an estimated 100 cubic yards of affected soil.

Groundwater in the area is located at a depth of 35 feet bgs. Based on current data, there is no indication of impact to groundwater, and the potential for such impact is considered negligible.

Due to restricted access beneath between the tanks and the associated risk of compromising the structural integrity of the foundations, active remediation of the impacted soil is not feasible at this time. Therefore, XTO Energy respectfully requests a deferral of incident nAPP2431163462.

XTO remains committed to full remediation of the impacted materials in accordance with applicable NMAC state statutes once the pipelines, tank battery vessels, and associated equipment are decommissioned and access is safely available.

## **EXHIBITS**

Exhibit 1 – Topographic Map

Exhibit 2 – Site Location Map

Exhibit 3 – NMOSE Pod Location Map

Exhibit 4 – Regulatory Criteria Map

Exhibit 5 – Designated Wetlands Area Map

Exhibit 6 – Cave Karts Public UCP Map

Exhibit 7 – Delineation Sample Location Map

Exhibit 8 – Confirmation Sample Location Map  
(12/03/2024)

Exhibit 9 – Confirmation Sample Location Map  
(9/9/2025)



 Site Boundary

Project No.: KH247055  
Date: Nov 11 2025  
Drawn By: JWL  
Reviewed By: JRG



5847 50th St  
Lubbock, TX

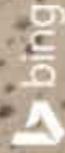
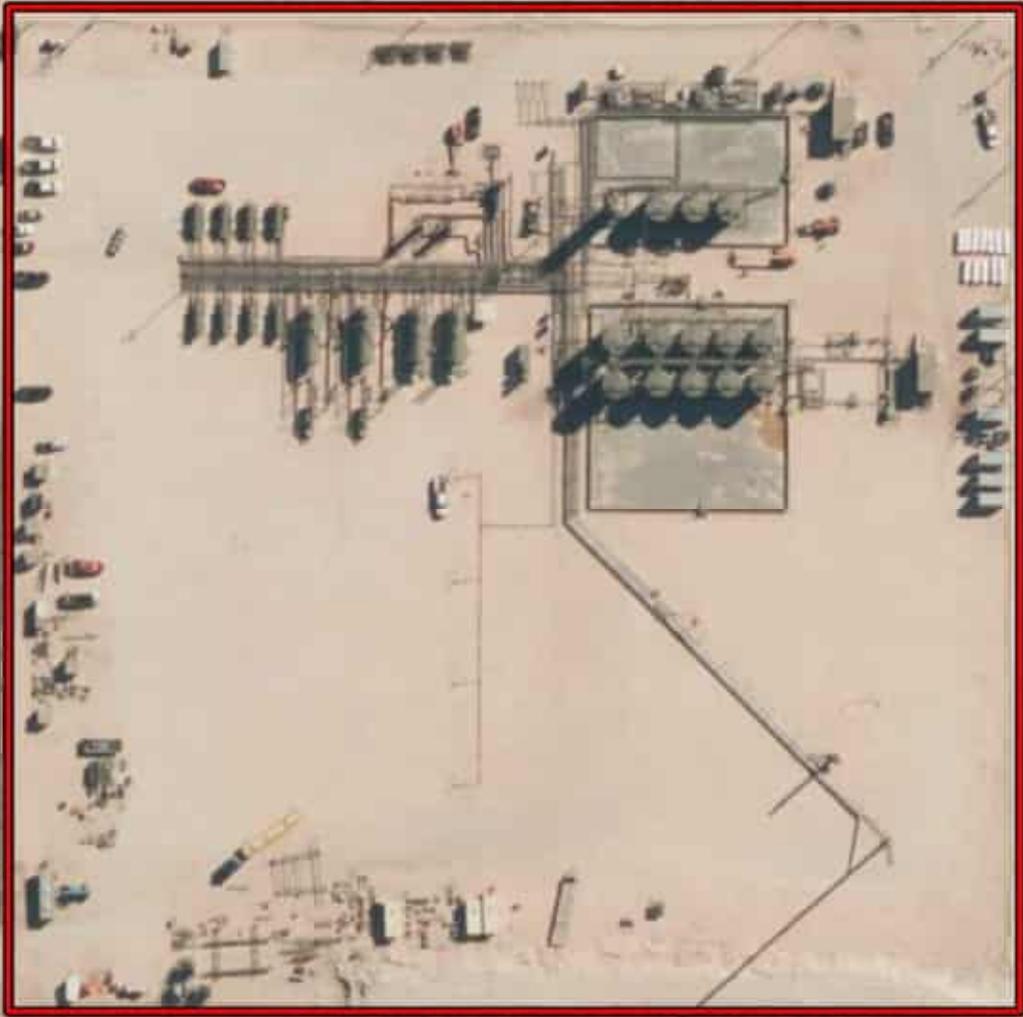
PH: 806-300-0140  
terracon.com

**Topographic Map**

Big Eddy Unit 30E Battery  
32.570145, -103.852192  
Carlsbad, Eddy County, New Mexico

**Exhibit**

**1**



 Site Boundary

Project No.:	KH247055
Date:	Nov 11 2025
Drawn By:	JWL
Reviewed By:	JRG



5847 50th St  
Lubbock, TX  
PH: 806-300-0140  
terracon.com

### Site Location Map

Big Eddy Unit 30E Battery  
32.570145, -103.852192  
Carlsbad, Eddy County, New Mexico

Exhibit

2



CP-02068

DATA SOURCE: Bing  
0 25 50 Feet



-  Site Boundary
-  NMOSE Points of Diversion

Project No.: KH247055  
 Date: Nov 11 2025  
 Drawn By: JWL  
 Reviewed By: JRG

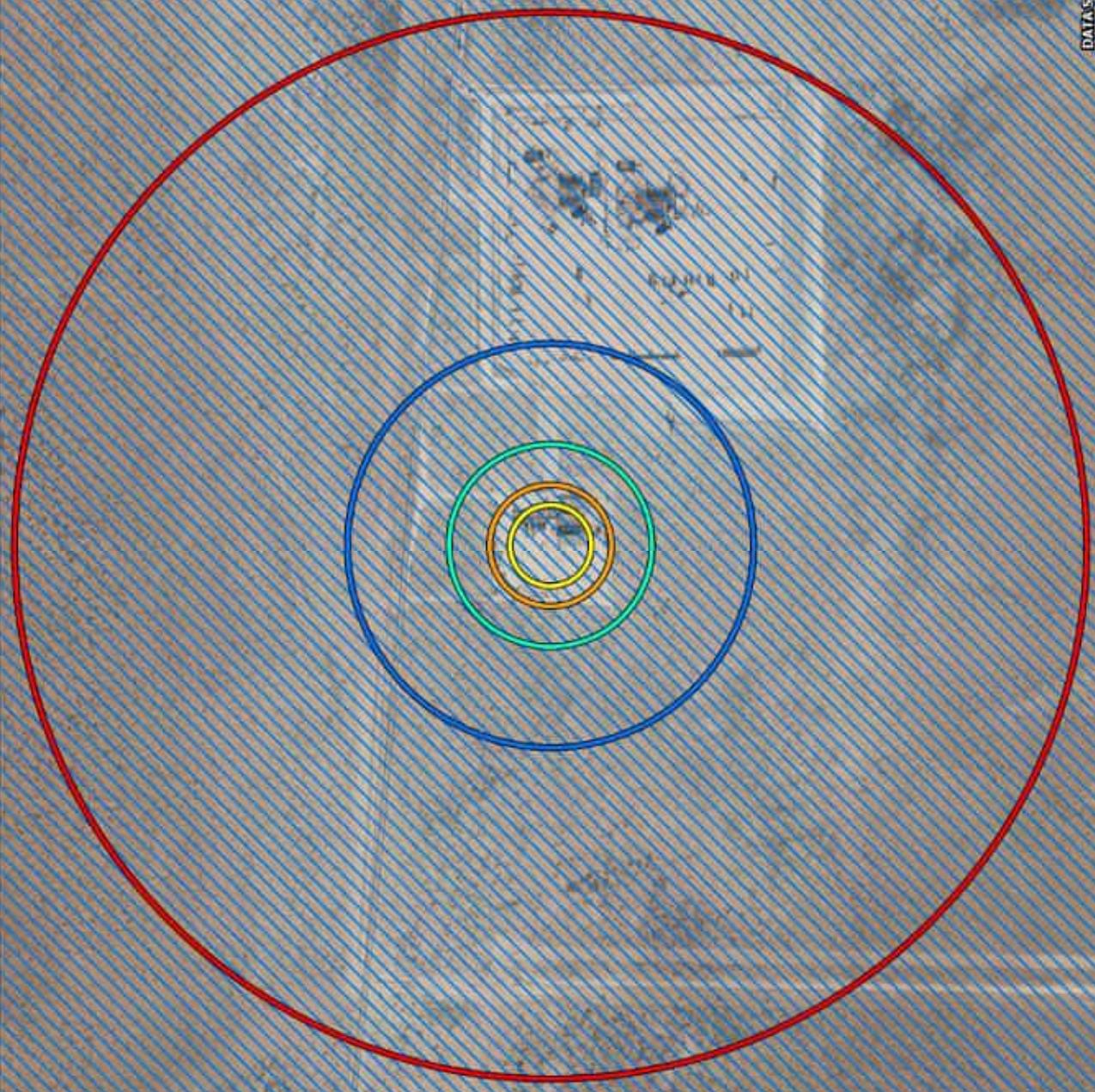


5847 50th St  
Lubbock, TX  
 PH: 806-300-0140  
 terracon.com

**NMOSE POD Location Map**  
 Big Eddy Unit 30E Battery  
 32.570145, -103.852192  
 Carlsbad, Eddy County, New Mexico

**Exhibit**  
**3**

DATA SOURCES: Bing 500 150 0 500 Feet



-  Flood Zone "X"
-  200' Radius
-  300' Radius
-  500' Radius
-  1,000' Radius
-  0.5-mi Radius

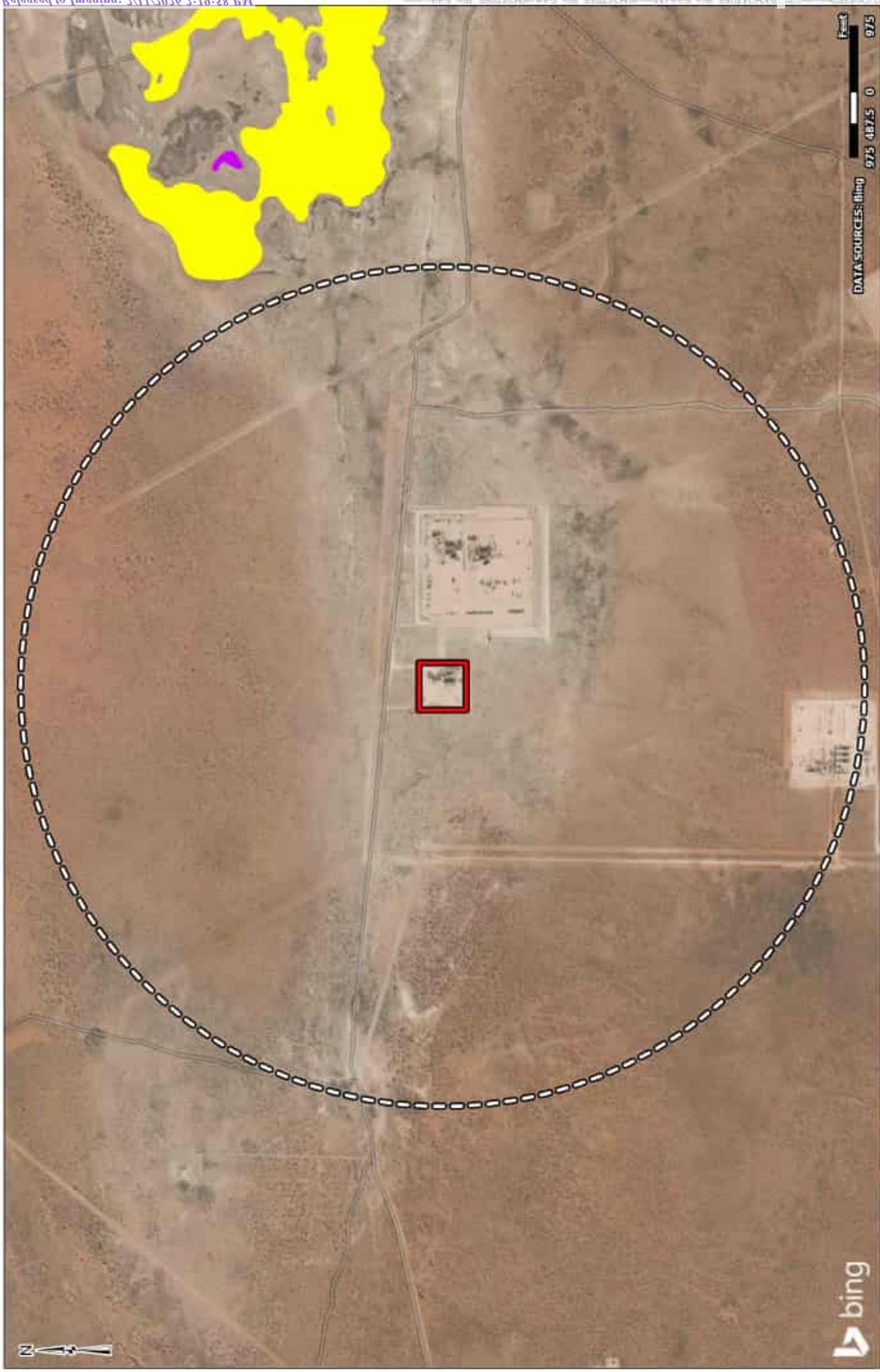


Project No.: KH247055  
 Date: Nov 11 2025  
 Drawn By: JWL  
 Reviewed By: JRG

**Terracon**  
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 Lubbock, TX  
 PH. 806-300-0140  
 terracon.com

**Regulatory Criteria Map**  
 Big Eddy Unit 30E Battery  
 32.570145, -103.852192  
 Carlsbad, Eddy County, New Mexico

**Exhibit**  
**4**



**Exhibit**  
**5**

**Designated Wetland Area Map**  
Big Eddy Unit 30E Battery  
32.570145, -103.852192  
Carlsbad, Eddy County, New Mexico



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PH: 806-300-0140  
terracon.com

Project No.: KH247055  
Date: Nov 11 2025  
Drawn By: JWL  
Reviewed By: JRG

-  Site Boundary
-  1-mile Radius
-  Freshwater Pond
-  Lake





**Exhibit**

**6**

**Cave Karst Public UCP Map**

Big Eddy Unit 30E Battery  
32.570145, -103.852192  
Carlsbad, Eddy County, New Mexico



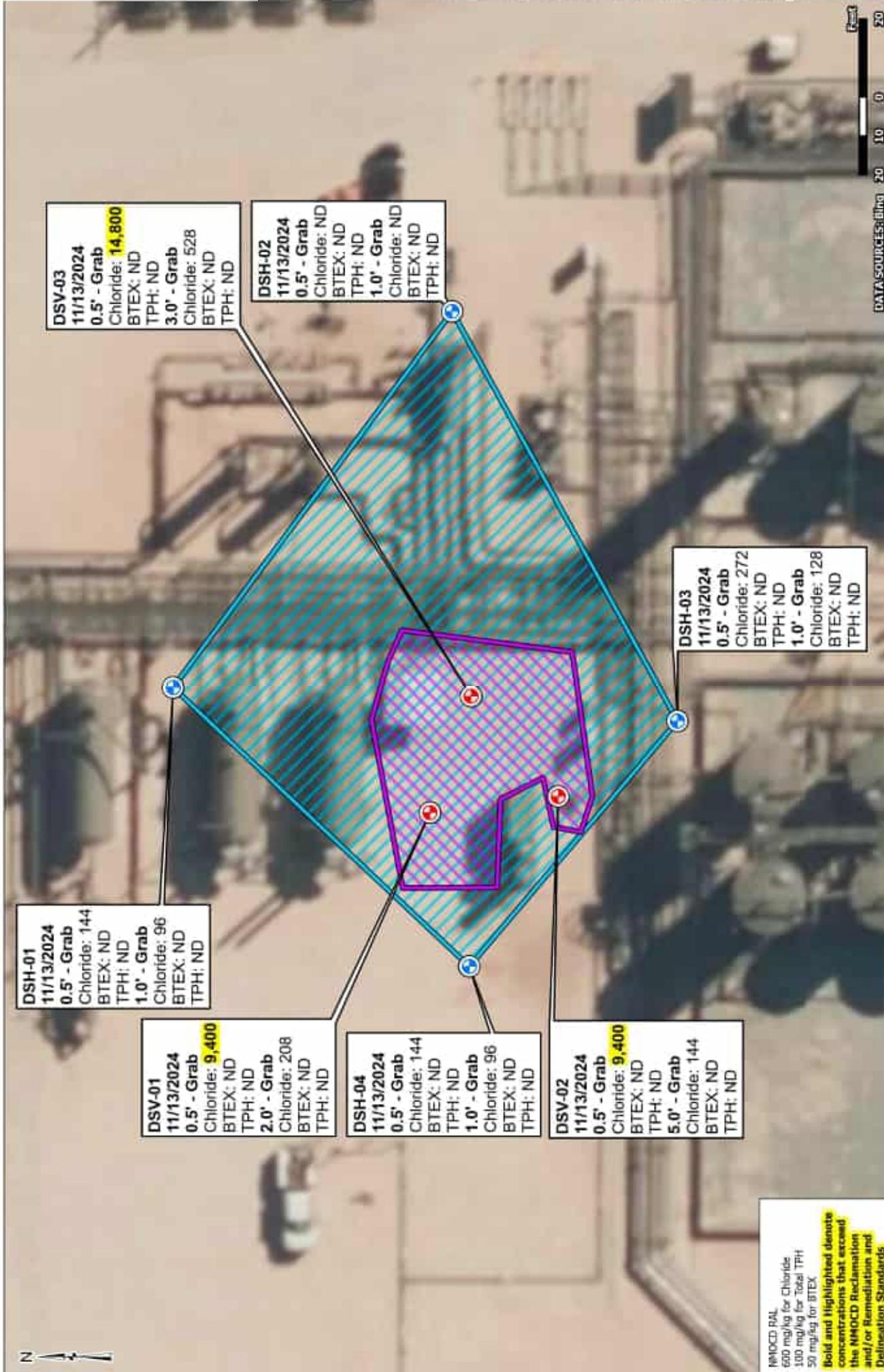
5847 50th St  
Lubbock, TX

PH. 806-300-0140      terracon.com

Project No.: KH247055  
Date: Nov 11 2025  
Drawn By: JWL  
Reviewed By: JRG

-  Site Boundary
-  Karst Potential Low
-  Medium
-  High





**DSH-01**  
 11/13/2024  
 0.5' - Grab  
 Chloride: 144  
 BTEX: ND  
 TPH: ND  
 1.0' - Grab  
 Chloride: 96  
 BTEX: ND  
 TPH: ND

**DSV-01**  
 11/13/2024  
 0.5' - Grab  
 Chloride: **9,400**  
 BTEX: ND  
 TPH: ND  
 2.0' - Grab  
 Chloride: 208  
 BTEX: ND  
 TPH: ND

**DSH-04**  
 11/13/2024  
 0.5' - Grab  
 Chloride: 144  
 BTEX: ND  
 TPH: ND  
 1.0' - Grab  
 Chloride: 96  
 BTEX: ND  
 TPH: ND

**DSV-02**  
 11/13/2024  
 0.5' - Grab  
 Chloride: **9,400**  
 BTEX: ND  
 TPH: ND  
 5.0' - Grab  
 Chloride: 144  
 BTEX: ND  
 TPH: ND

**DSV-03**  
 11/13/2024  
 0.5' - Grab  
 Chloride: **14,800**  
 BTEX: ND  
 TPH: ND  
 3.0' - Grab  
 Chloride: 528  
 BTEX: ND  
 TPH: ND

**DSH-02**  
 11/13/2024  
 0.5' - Grab  
 Chloride: ND  
 BTEX: ND  
 TPH: ND  
 1.0' - Grab  
 Chloride: ND  
 BTEX: ND  
 TPH: ND

**DSH-03**  
 11/13/2024  
 0.5' - Grab  
 Chloride: 272  
 BTEX: ND  
 TPH: ND  
 1.0' - Grab  
 Chloride: 128  
 BTEX: ND  
 TPH: ND

DATA SOURCES: Bing 20 10 0 20 Feet

Exhibit **7**

**Delineation Sample Location Map**

Big Eddy Unit 30E Battery  
 32.570145, -103.852192  
 Carlsbad, Eddy County, New Mexico

**Terracon**  
 5847 50th St  
 Lubbock, TX  
 PH: 806-300-0140  
 terracon.com

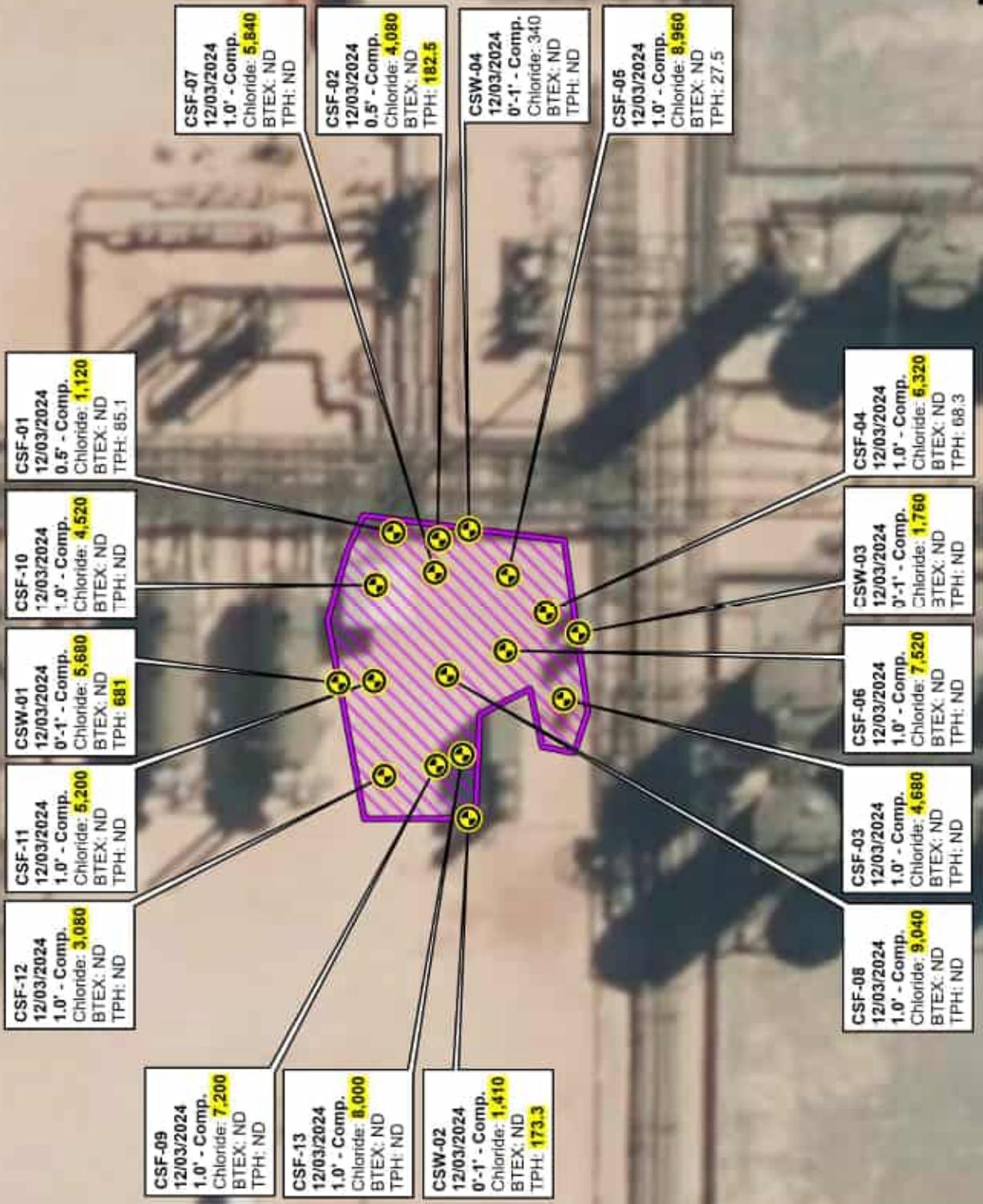
Project No.: KH247055  
 Date: Nov 11 2025  
 Drawn By: JWL  
 Reviewed By: JRG

Area of Concern  
 Delineation Area  
 Horizontal Delineation Sample  
 Vertical Delineation Sample

**Project Location**



Scale: 0 10 20 Feet  
DATA SOURCE: Bing 20 10 0 20



NMOCED RAL  
 600 mg/kg for Chloride  
 100 mg/kg for Total TPH  
 50 mg/kg for BTEX  
**Bold and Highlighted denote concentrations that exceed the NMOCED Reclamation and/or Remediation and Delineation Standards**

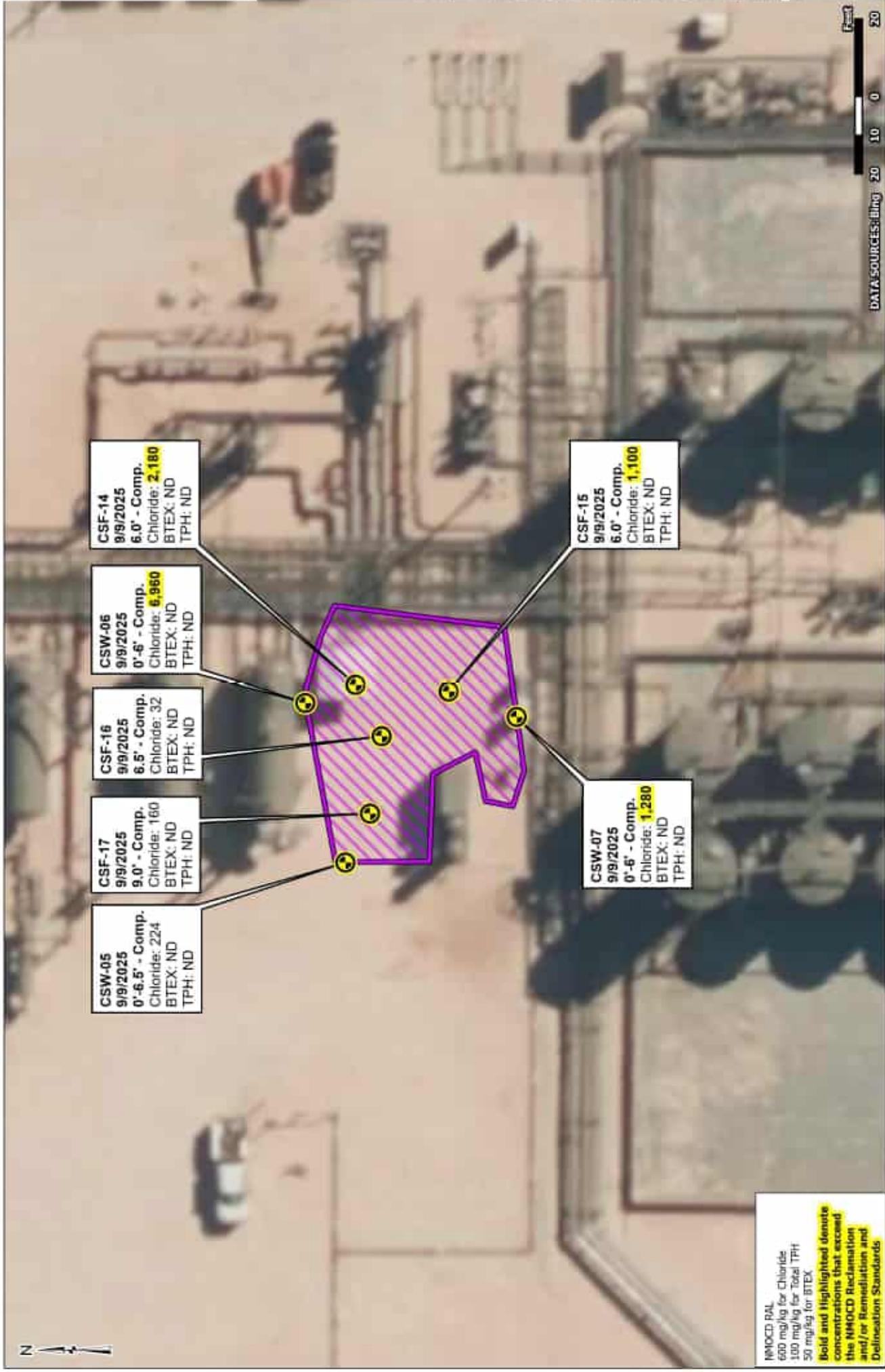


**Confirmation Floor Sample**  
**Area of Concern**

Project No.: KH247055  
 Date: Nov 11 2025  
 Drawn By: JWJ  
 Reviewed By: JRG

**Terracon**  
 5847 50th St  
 Lubbock, TX  
 PH: 806-300-0140  
 terracon.com

**Confirmation Sample Location Map (2024)**  
 Big Eddy Unit 30E Battery  
 32.570145, -103.852192  
 Carlsbad, Eddy County, New Mexico



NMOCCL RAL  
 600 mg/kg for Chloride  
 100 mg/kg for Total TPH  
 50 mg/kg for BTEX  
**Bold and Highlighted denote concentrations that exceed the NMOCCL Reclamation and/or Remediation and Delineation Standards**



Confirmation Floor Sample  
 Area of Concern

Project No.: KH247055  
 Date: Nov 11 2025  
 Drawn By: JWL  
 Reviewed By: JRG

5847 50th St  
 Lubbock, TX  
 PH: 806-300-0140  
 terracon.com

Confirmation Sample Location Map (2025)  
 Big Eddy Unit 30E Battery  
 32.570145, -103.852192  
 Carlsbad, Eddy County, New Mexico

Exhibit  
**9**

## **TABLES & ATTACHMENTS**

Table 1 – Delineation Sample Results

Table 2 – Confirmation Sample Results

Attachment 1 – NMOSE Well Log Report

<p align="center"><b>Big Eddy Unit 30E Battery</b>  <b>Table 1 - Release Assessment</b>  <b>Terracon Project Code: KH247055</b>  <b>NMOCD Reference No. nAPP2431163462</b></p>											
Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
					EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
<b>Release Assessment</b>											
DSV-01	11/13/2024	0.5	Grab	Excavated	<b>9,400</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	2	Grab	Excavated	<b>208</b>	ND	ND	ND	ND	ND	ND
DSV-02	11/13/2024	0.5	Grab	Excavated	<b>9,400</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	5	Grab	Excavated	<b>144</b>	ND	ND	ND	ND	ND	ND
DSV-03	11/13/2024	0.5	Grab	Excavated	<b>14,800</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	3	Grab	In-Situ	<b>528</b>	ND	ND	ND	ND	ND	ND
DSH-01	11/13/2024	0.5	Grab	In-Situ	<b>144</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	1	Grab	In-Situ	<b>96</b>	ND	ND	<b>48.6</b>	ND	<b>48.6</b>	ND
DSH-02	11/13/2024	0.5	Grab	In-Situ	ND	ND	ND	ND	ND	ND	ND
	11/13/2024	1	Grab	In-Situ	ND	ND	ND	ND	ND	ND	ND
DSH-03	11/13/2024	0.5	Grab	In-Situ	<b>272</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	1	Grab	In-Situ	<b>128</b>	ND	ND	ND	ND	ND	ND
DSH-04	11/13/2024	0.5	Grab	In-Situ	<b>144</b>	ND	ND	ND	ND	ND	ND
	11/13/2024	1	Grab	In-Situ	<b>96</b>	ND	ND	ND	ND	ND	ND
<b>NMOCD Remediation Standards<sup>3</sup></b>					<b>600</b>	<b>10</b>	<b>50</b>	<b>100</b>	<b>N/A</b>		
<p>1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes  2. TPH = Total petroleum hydrocarbons  3. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N,12/01/23  ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).  ND = &lt;16.0 Chlorides. &lt;0.050 Benzene. &lt;0.300 BTEX. &lt;10.0 TPH.  NA = Not Analyzed</p>											
<p><b>Bold denotes concentrations above applicable laboratory SDLs.</b>  <b>Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.</b>  In-situ = Sample is representative of material which remains in-place at the site.  Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.</p>											
Data Entry:					BSM						
Reviewed By:					AHW						



**Big Eddy Unit 30E Battery**  
**Table 2 - Confirmation Results**  
**Terracon Project Code: KH247055**  
**NMOCD Reference No. nAPP2431163462**

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)	
<b>Side Wall Confirmation Table</b>												
CSW-01	12/3/2024	0-1	Composite	Excavated	5,680	ND	ND	681	ND	552	129	
CSW-02	12/3/2024	0-1	Composite	Excavated	1,410	ND	ND	173.3	ND	161	12.3	
CSW-03	12/3/2024	0-1	Composite	Excavated	1,760	ND	ND	ND	ND	ND	ND	
CSW-04	12/3/2024	0-1	Composite	In-Situ	304	ND	ND	ND	ND	ND	ND	
CSW-05	9/9/2025	0-6.5	Composite	In-Situ	224	ND	ND	ND	ND	ND	ND	
CSW-06	9/9/2025	0-6	Composite	In-Situ	6,960	ND	ND	ND	ND	ND	ND	
CSW-07	9/9/2025	0-6	Composite	In-Situ	1,280	ND	ND	ND	ND	ND	ND	
<b>Floor Confirmation Table</b>												
CFS-01	12/3/2024	0.5	Composite	Excavated	1,120	ND	ND	85.1	ND	68.8	16.3	
CFS-02	12/3/2024	0.5	Composite	Excavated	4,080	ND	ND	182.5	ND	133	49.5	
CFS-03	12/3/2024	1.0	Composite	Excavated	4,680	ND	ND	ND	ND	ND	ND	
CFS-04	12/3/2024	1.0	Composite	Excavated	6,320	ND	ND	68.3	ND	68.3	ND	
CFS-05	12/3/2024	1.0	Composite	Excavated	8,960	ND	ND	27.5	ND	27.5	ND	
CFS-06	12/3/2024	1.0	Composite	Excavated	7,520	ND	ND	ND	ND	ND	ND	
CFS-07	12/3/2024	1.0	Composite	Excavated	5,840	ND	ND	ND	ND	ND	ND	
CFS-08	12/3/2024	1.0	Composite	Excavated	9,040	ND	ND	ND	ND	ND	ND	
CFS-09	12/3/2024	1.0	Composite	Excavated	7,200	ND	ND	ND	ND	ND	ND	
CFS-10	12/3/2024	1.0	Composite	Excavated	4,520	ND	ND	ND	ND	ND	ND	
CFS-11	12/3/2024	1.0	Composite	Excavated	5,200	ND	ND	ND	ND	ND	ND	
CFS-12	12/3/2024	1.0	Composite	Excavated	3,080	ND	ND	ND	ND	ND	ND	
CFS-13	12/3/2024	1.0	Composite	Excavated	8,000	ND	ND	ND	ND	ND	ND	
CFS-14	9/9/2025	6.0	Composite	In-Situ	2,180	ND	ND	ND	ND	ND	ND	
CFS-15	9/9/2025	6.0	Composite	In-Situ	1,100	ND	ND	ND	ND	ND	ND	
CFS-16	9/9/2025	6.5	Composite	In-Situ	32	ND	ND	ND	ND	ND	ND	
CFS-17	9/9/2025	9.0	Composite	In-Situ	160	ND	ND	ND	ND	ND	ND	
<b>NMOCD Remediation Standards<sup>3</sup></b>									<b>N/A</b>			

1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes

2. TPH = Total petroleum hydrocarbons

3. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N,12/01/23

ND = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

ND = <16.0 Chlorides, <0.050 Benzene, <0.300 BTEX, <10.0 TPH.

NA = Not Analyzed

**Bold denotes concentrations above applicable laboratory SDLs.**

**Bold and Highlighted values exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.**

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

Data Entry:

Reviewed By:

BSM

AHW





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S). Cp-2068	
	WELL OWNER NAME(S) XTO Permian Operating				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 3104 E greene st				CITY Carlsbad	STATE ZIP NM 88220
	WELL LOCATION (FROM GPS)	DEGREES -103.852623	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LATITUDE N	LONGITUDE 32.570909		* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1839		NAME OF LICENSED DRILLER Boyd Coffey			NAME OF WELL DRILLING COMPANY Coffey drilling		
	DRILLING STARTED 6-19-2025		DRILLING ENDED 6-19-2025	DEPTH OF COMPLETED WELL (FT) 60	BORE HOLE DEPTH (FT) 60'	DEPTH WATER FIRST ENCOUNTERED (FT) 35		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 27	DATE STATIC MEASURED 6-25-2025	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	6.75	PVC	Treaded	2	Sch 40	
	20	60	6.25	PVC	Threaded	2	Sch 40	0.032

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	20	6.75	Baroid quick grout	4.6	Tremie
	20	60	8.25	Baroid Quick grout	69	Tremie

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2	



**APPENDICES**  
**APPENDIX A – PHOTOGRAPHIC LOG**



### KH247055 Photo Log



Pre-Excavation – NW Corner looking East



Pre-Excavation – SW Corner looking East



### KH247055 Photo Log



Pre-Excavation – SE Corner looking West



Pre-Excavation – NE Corner looking South

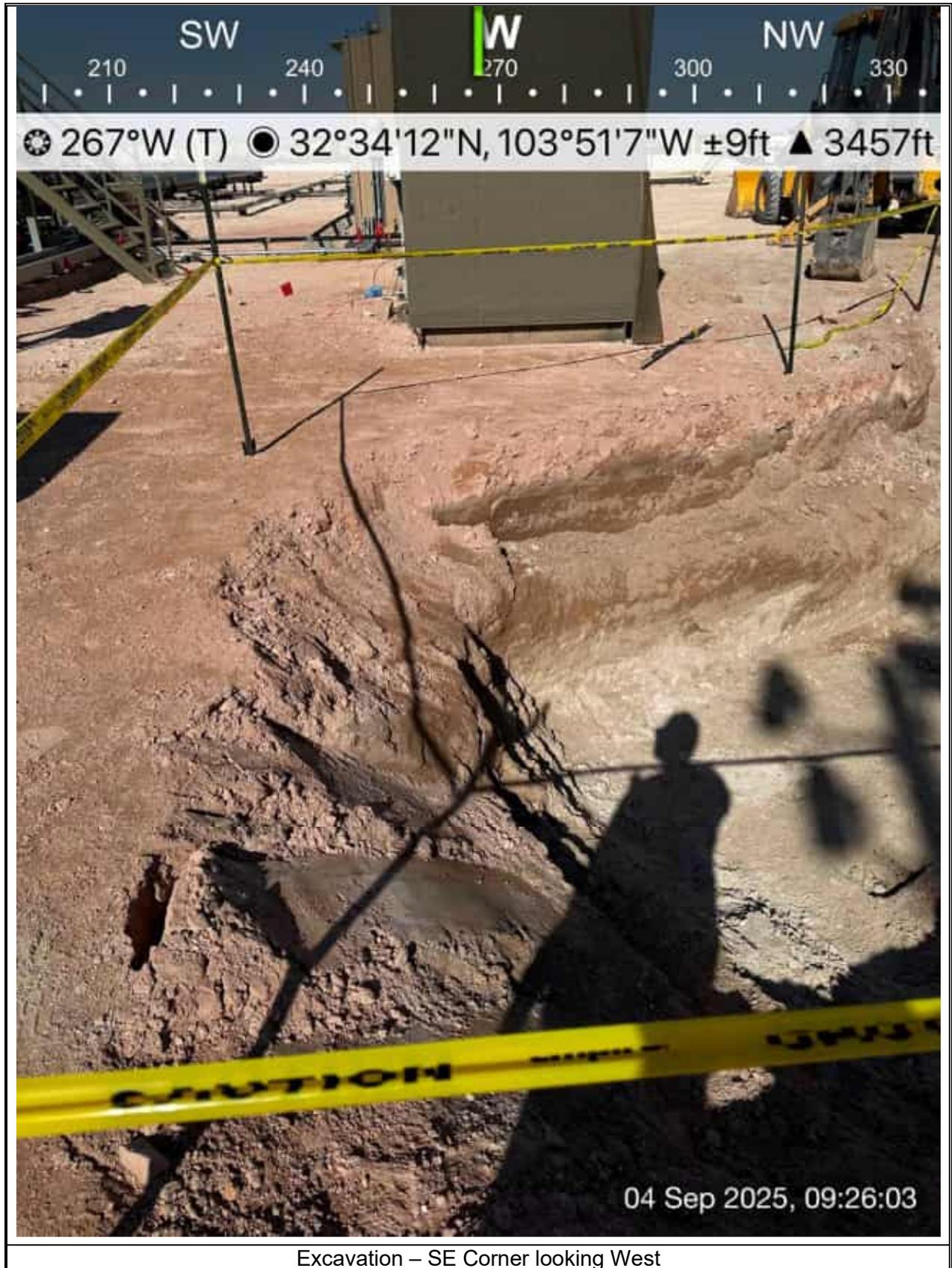


### KH247055 Photo Log



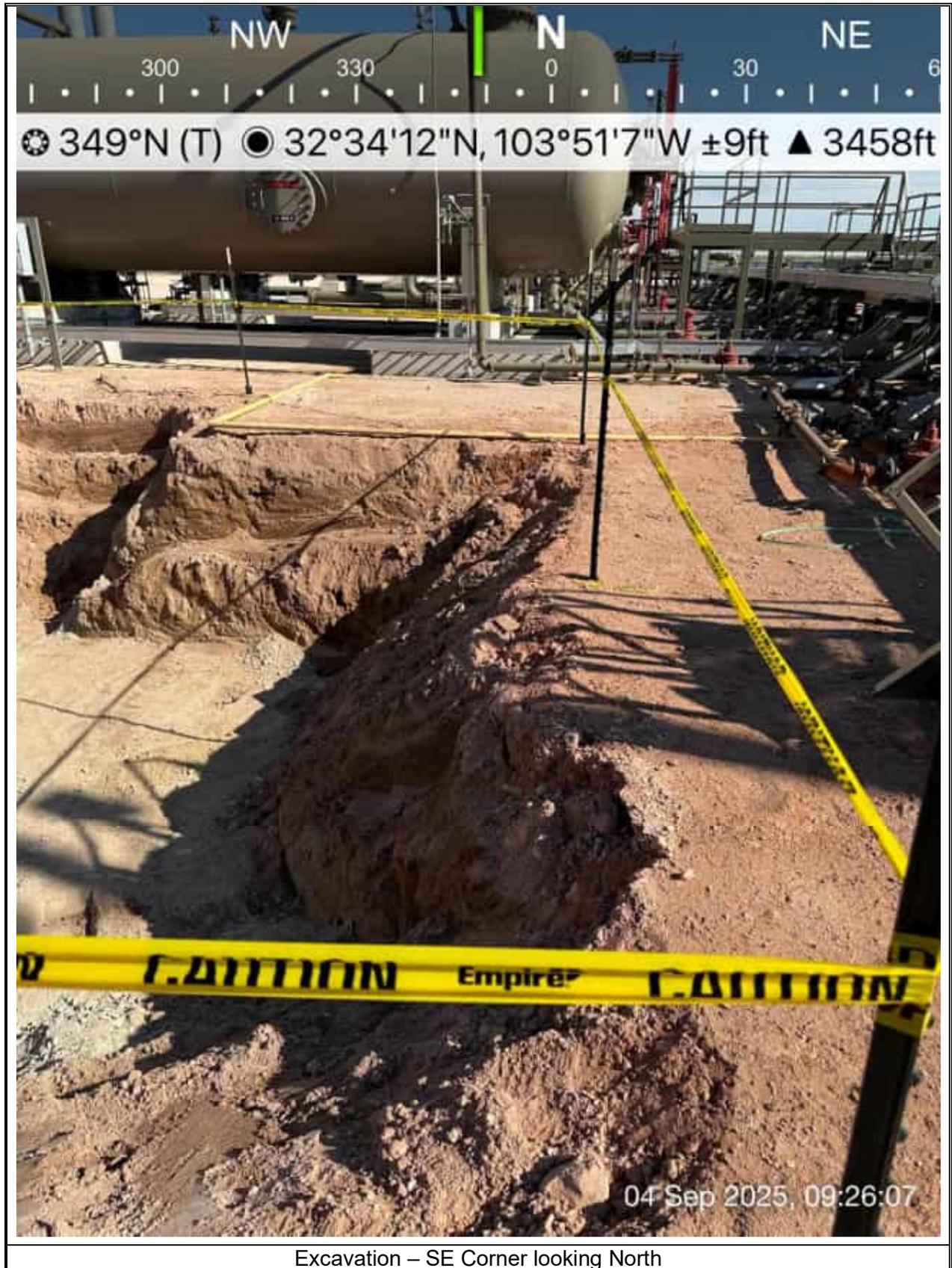


### KH247055 Photo Log



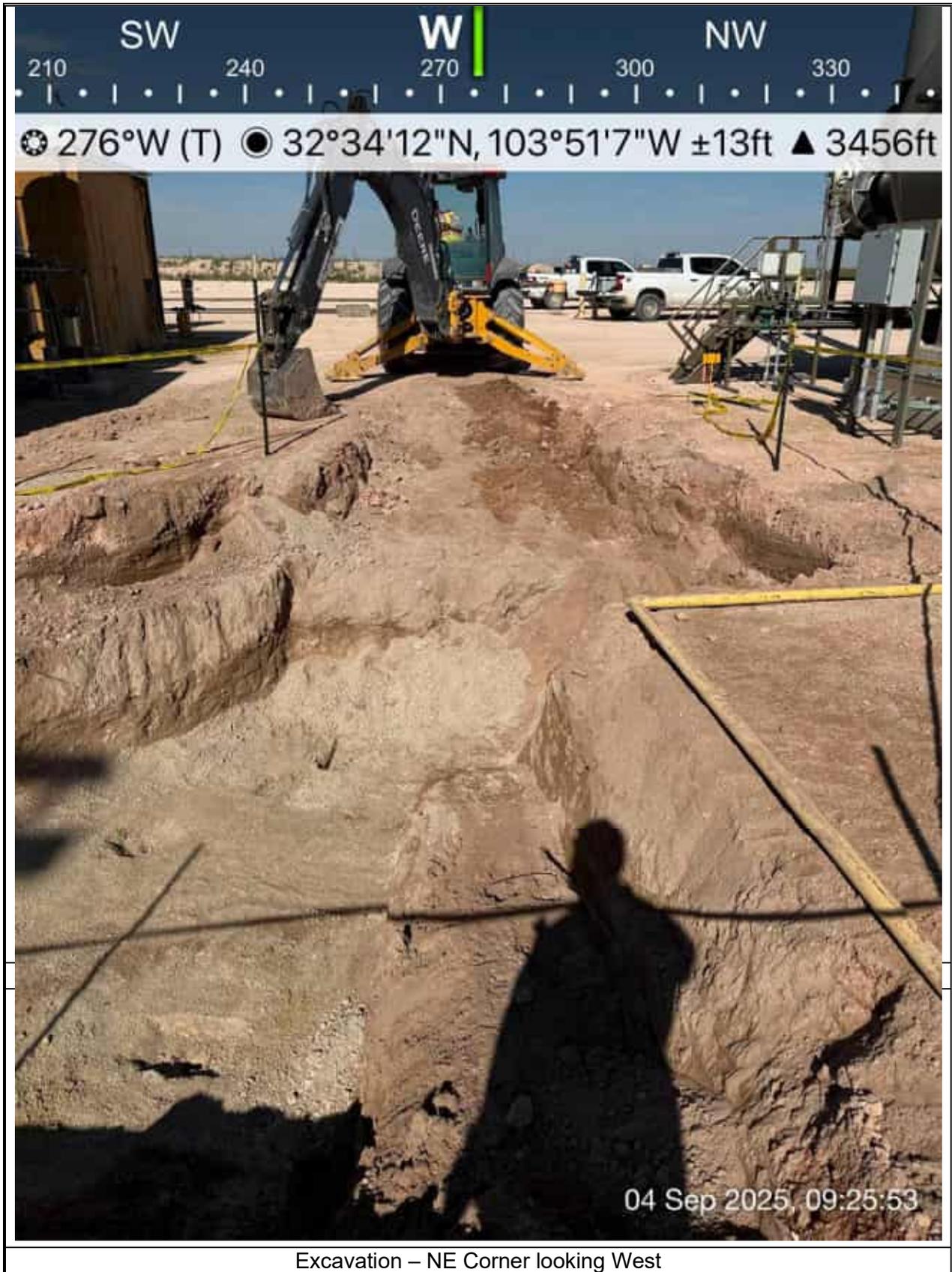


### KH247055 Photo Log





### KH247055 Photo Log



## **APPENDIX B – LABORATORY ANALYTICAL REPORTS & CHAIN OF CUSTODY**



November 20, 2024

AUSTIN WORLEY  
TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK, TX 79424

RE: BIG EDDY UNIT 30E BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/14/24 14:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/14/2024	Sampling Date:	11/13/2024
Reported:	11/20/2024	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: DSV - 01 0.5 (H246970-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.07	103	2.00	4.76	
Toluene*	<0.050	0.050	11/16/2024	ND	2.14	107	2.00	4.18	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.13	106	2.00	3.42	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	6.32	105	6.00	3.59	
Total BTEX	<0.300	0.300	11/16/2024	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9400</b>	16.0	11/18/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	218	109	200	4.17	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	220	110	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					

*Surrogate: 1-Chlorooctane 89.9 % 48.2-134*
*Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSV - 01 2 (H246970-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/18/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	218	109	200	4.17		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	220	110	200	3.87		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSV - 02 0.5 (H246970-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9400	16.0	11/15/2024	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	218	109	200	4.17		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	220	110	200	3.87		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSV - 02 5 (H246970-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	218	109	200	4.17		
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	220	110	200	3.87		
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND						

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/14/2024	Sampling Date:	11/13/2024
Reported:	11/20/2024	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: DSV - 03 0.5 (H246970-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14800	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	218	109	200	4.17		
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	220	110	200	3.87		
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND						

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSV - 03 3 (H246970-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2	
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/15/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2024	ND	218	109	200	4.17	
DRO >C10-C28*	<10.0	10.0	11/16/2024	ND	220	110	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	11/16/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 01 0.5 (H246970-07)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 01 1 (H246970-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2	
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	11/15/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694	
<b>DRO &gt;C10-C28*</b>	<b>48.6</b>	10.0	11/15/2024	ND	209	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 02 0.5 (H246970-09)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 02 1 (H246970-10)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 03 0.5 (H246970-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2	
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3	
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5	
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0	
Total BTEX	<0.300	0.300	11/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/15/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694	
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 03 1 (H246970-12)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/14/2024	Sampling Date:	11/13/2024
Reported:	11/20/2024	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: DSH - 04 0.5 (H246970-13)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 11/14/2024  
 Reported: 11/20/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 11/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: DSH - 04 1 (H246970-14)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2024	ND	2.11	106	2.00	16.2		
Toluene*	<0.050	0.050	11/16/2024	ND	2.23	111	2.00	20.3		
Ethylbenzene*	<0.050	0.050	11/16/2024	ND	2.34	117	2.00	21.5		
Total Xylenes*	<0.150	0.150	11/16/2024	ND	7.09	118	6.00	22.0		
Total BTEX	<0.300	0.300	11/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/15/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/15/2024	ND	208	104	200	0.694		
DRO >C10-C28*	<10.0	10.0	11/15/2024	ND	209	105	200	1.40		
EXT DRO >C28-C36	<10.0	10.0	11/15/2024	ND						

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Terracon <b>Project Manager:</b> Austin Worley <b>Address:</b> 4526 W. Pierce Street <b>City:</b> Carlsbad <b>Phone #:</b> 5756999249 <b>Project #:</b> KH247055 <b>Project Name:</b> Big Eddy Unit 30E Battery <b>Project Location:</b> Eddy <b>Sampler Name:</b> Becky Sue Meadows <small>FROM LAB USE ONLY</small>		<b>P.O. #:</b> <b>Company:</b> XTO Energy <b>Attn:</b> Colton Brown <b>Address:</b> 3104 E Green St. <b>City:</b> Carlsbad <b>State:</b> NM, 88220 <b>Phone #:</b> <b>Fax #:</b>		<b>BILL TO:</b> <b>ANALYS REQUEST</b>	
<b>Lab I.D.:</b> H240020 <b>Sample I.D.:</b>		<b>Depth:</b> Start: 0.5 G 1 End: 2 G 1 (G)RAB OR (C)OM		<b># CONTAINERS:</b> GROUNDWATER WASTEWATER MATRIX: SOIL, OIL, SLUDGE, OTHER: ACID/BASE: ICE / COOL OTHER:	
1 DSV-01 2 DSV-01 3 DSV-02 4 DSV-02 5 DSV-03 6 DSV-03 7 DSH-01 8 DSH-01 9 DSH-02		1 G 1 2 G 1 0.5 G 1 0.5 G 1 0.5 G 1 0.5 G 1 1 G 1 0.5 G 1 1 G 1		11/13/24 8:16 11/13/24 8:18 11/13/24 8:05 11/13/24 14:00 11/13/24 8:11 11/13/24 11:23 11/13/24 13:50 11/13/24 13:55 11/13/24 14:16 11/13/24 14:20	
<b>Delivered By:</b> (Circle One) - UPS - Bus - Other:		<b>Clearance Temp:</b> °C -0.5 <b>Corrected Temp:</b> °C -1.1		<b>Sample Condition:</b> Cool <input type="checkbox"/> Hot <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
<b>Received By:</b> [Signature] <b>Date:</b> 11-14-24 <b>Time:</b> 1:01 PM		<b>Received By:</b> [Signature] <b>Date:</b>		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>	
<b>Remarks:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		<b>REMARKS:</b> Cost Code: 2090141001	





December 10, 2024

AUSTIN WORLEY  
TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK, TX 79424

RE: BIG EDDY UNIT 30E BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BF - 01 0.5 (H247384-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager





December 10, 2024

AUSTIN WORLEY  
TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK, TX 79424

RE: BIG EDDY UNIT 30E BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/24 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	12/04/2024	Sampling Date:	12/03/2024
Reported:	12/10/2024	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO - EDDY CO NM		

**Sample ID: CSW - 01 0-1 (H247385-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>552</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
<b>EXT DRO &gt;C28-C36</b>	<b>129</b>	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CSW - 02 0-1 (H247385-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1410</b>	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>161</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
<b>EXT DRO &gt;C28-C36</b>	<b>12.3</b>	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CSW - 03 0-1 (H247385-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CSW - 04 0-1 (H247385-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 01 0.5 (H247385-05)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.21	111	2.00	6.37	
Toluene*	<0.050	0.050	12/05/2024	ND	2.20	110	2.00	10.0	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.31	115	2.00	14.0	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	7.02	117	6.00	15.8	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1120</b>	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>68.8</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
<b>EXT DRO &gt;C28-C36</b>	<b>16.3</b>	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 02 0.5 (H247385-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4080</b>	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>133</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
<b>EXT DRO &gt;C28-C36</b>	<b>49.5</b>	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 03 1 (H247385-07)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 04 1 (H247385-08)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>6320</b>	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>68.3</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 05 1 (H247385-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8960</b>	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
<b>DRO &gt;C10-C28*</b>	<b>27.5</b>	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 06 1 (H247385-10)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 07 1 (H247385-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 08 1 (H247385-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9040	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 09 1 (H247385-13)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 10 1 (H247385-14)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4520	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 11 1 (H247385-15)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	12/05/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 12 1 (H247385-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45		
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04		
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448		
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04		
Total BTEX	<0.300	0.300	12/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	12/05/2024	ND	448	112	400	3.51	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/05/2024	ND	201	101	200	1.70		
DRO >C10-C28*	<10.0	10.0	12/05/2024	ND	200	99.8	200	8.48		
EXT DRO >C28-C36	<10.0	10.0	12/05/2024	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 12/04/2024  
 Reported: 12/10/2024  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 12/03/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CFS - 13 1 (H247385-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	1.45	
Toluene*	<0.050	0.050	12/05/2024	ND	2.18	109	2.00	1.04	
Ethylbenzene*	<0.050	0.050	12/05/2024	ND	2.28	114	2.00	0.448	
Total Xylenes*	<0.150	0.150	12/05/2024	ND	6.76	113	6.00	1.04	
Total BTEX	<0.300	0.300	12/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	12/05/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	201	101	200	1.70	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	200	99.8	200	8.48	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager





September 16, 2025

AUSTIN WORLEY  
TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK, TX 79424

RE: BIG EDDY UNIT 30E BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/10/25 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	09/10/2025	Sampling Date:	09/09/2025
Reported:	09/16/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: CSF - 14 6' (H255672-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0	
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41	
Total BTEX	<0.300	0.300	09/11/2025	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2180</b>	16.0	09/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

*Surrogate: 1-Chlorooctane 88.4 % 44.4-145*
*Surrogate: 1-Chlorooctadecane 86.7 % 40.6-153*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 09/10/2025  
 Reported: 09/16/2025  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 09/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CSF - 15 6' (H255672-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0	
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41	
Total BTEX	<0.300	0.300	09/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	09/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	09/10/2025	Sampling Date:	09/09/2025
Reported:	09/16/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: CSF - 16 6.5' (H255672-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0		
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12		
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82		
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND						

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	09/10/2025	Sampling Date:	09/09/2025
Reported:	09/16/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: CSW - 05 0'-6.5' (H255672-04)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0		
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12		
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82		
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND						

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.5 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

 Received: 09/10/2025  
 Reported: 09/16/2025  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

 Sampling Date: 09/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CSW - 06 0'-6' (H255672-05)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0		
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>6960</b>	16.0	09/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12		
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82		
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND						

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 09/10/2025  
 Reported: 09/16/2025  
 Project Name: BIG EDDY UNIT 30E BATTERY  
 Project Number: KH247055  
 Project Location: XTO - EDDY CO NM

Sampling Date: 09/09/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CSW - 07 0'-6' (H255672-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0		
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27		
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96		
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41		
Total BTEX	<0.300	0.300	09/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	09/11/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12		
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82		
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND						

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <u>Terrecon</u> <b>Project Manager:</b> <u>Austin Worley</u> <b>Address:</b> <u>5847 50th Street</u> <b>City:</b> <u>Lubbock</u> <b>State:</b> <u>TX</u> <b>Zip:</b> <u>79424</u> <b>Phone #:</b> <u>806 300 0140</u> <b>Fax #:</b> _____ <b>Project #:</b> <u>KH247055</u> <b>Project Owner:</b> _____ <b>Project Name:</b> <u>Big Eddy Unit 30E Battery</u> <b>Project Location:</b> <u>Rural Eddy County</u> <b>Sampler Name:</b> <u>Arson Adams</u>		<b>BILL TO</b> <b>P.O. #:</b> <u>2096141001</u> <b>Company:</b> <u>XTO Energy</u> <b>Attn:</b> <u>Colton Brown</u> <b>Address:</b> <u>3104 E Greene St</u> <b>City:</b> <u>Carlsbad</u> <b>State:</b> <u>NM</u> <b>Zip:</b> <u>88220</u> <b>Phone #:</b> <u>575-867-7309</u> <b>Fax #:</b> _____		<b>ANALYSIS REQUEST</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.:</b> _____ <b>Sample I.D.:</b> _____ <u>HASSLID</u> 1 <u>ASF-14 6'</u> 2 <u>ASF-15 6'</u> 3 <u>ASF-16 6.5'</u> 4 <u>CSW-05 0-6.5'</u> 5 <u>CSW-06 0-6'</u> 6 <u>CSW-07 0-6'</u> <u>NFE</u>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	MATRIX ACID/BASE: ICE / COOL OTHER :	PRESERV. DATE TIME	SAMPLING BTEX TPH Chloride
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: _____		Date: <u>9-10-25</u> Time: <u>1255</u>	Received By: <u>Arson Adams</u> Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

September 16, 2025

AUSTIN WORLEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: BIG EDDY UNIT 30E BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/10/25 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TERRACON CONSULTANTS  
 AUSTIN WORLEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	09/10/2025	Sampling Date:	09/09/2025
Reported:	09/16/2025	Sampling Type:	Soil
Project Name:	BIG EDDY UNIT 30E BATTERY	Sampling Condition:	Cool & Intact
Project Number:	KH247055	Sample Received By:	Alyssa Parras
Project Location:	XTO - EDDY CO NM		

**Sample ID: CSF - 17 9' (H255673-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2025	ND	2.26	113	2.00	11.0	
Toluene*	<0.050	0.050	09/11/2025	ND	2.08	104	2.00	7.27	
Ethylbenzene*	<0.050	0.050	09/11/2025	ND	2.12	106	2.00	6.96	
Total Xylenes*	<0.150	0.150	09/11/2025	ND	6.41	107	6.00	7.41	
Total BTEX	<0.300	0.300	09/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/11/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2025	ND	187	93.6	200	1.12	
DRO >C10-C28*	<10.0	10.0	09/11/2025	ND	185	92.3	200	1.82	
EXT DRO >C28-C36	<10.0	10.0	09/11/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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Celey D. Keene, Lab Director/Quality Manager



## **APPENDIX D – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE**

### **Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the MSA agreed with you, XTO Energy, Inc.

### **Additional Scope Limitations**

The development of this Reclamation Workplan Report is based upon information provided by XTO Energy, Inc. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by XTO Energy, Inc. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

### **Reliance**

This report has been prepared for the exclusive use of XTO Energy, Inc, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of XTO Energy, Inc, and Terracon. Any unauthorized distribution or reuse is at XTO Energy, Inc, sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and XTO Energy, Inc, and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to XTO Energy, Inc, and all relying parties unless otherwise agreed in writing.

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 531834

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2431163462
Incident Name	NAPP2431163462 BIG EDDY UNIT 30E BATTERY @ I-15-20S-31E
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Big Eddy Unit 30E Battery
Date Release Discovered	11/03/2024
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 17 BBL   Recovered: 10 BBL   Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**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 531834

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*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: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 12/04/2025
--	--

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Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 531834

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  531834
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (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)	14800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	681
GRO+DRO (EPA SW-846 Method 8015M)	552
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	12/01/2024
On what date will (or did) the final sampling or liner inspection occur	09/09/2025
On what date will (or was) the remediation complete(d)	09/09/2025
What is the estimated surface area (in square feet) that will be reclaimed	1993
What is the estimated volume (in cubic yards) that will be reclaimed	222
What is the estimated surface area (in square feet) that will be remediated	1993
What is the estimated volume (in cubic yards) that will be remediated	73

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.

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

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Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 531834

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Remediation Plan (continued)**

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

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	FEEM0112342028 LEA LAND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/04/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 531834

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Additional remediation could not be completed due to restricted access beneath and between on-site tanks, flow lines, electrical control sheds, and other equipment the risk of compromising the structural integrity of the foundations.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1600
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	60
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	fAPP2123045897 BIG EDDY UNIT 30 EAST
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/08/2025

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QUESTIONS, Page 6

Action 531834

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>503463</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>09/09/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>7</b>
What was the sampling surface area in square feet	<b>600</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	<b>No</b>

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CONDITIONS

Action 531834

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 531834
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**CONDITIONS**

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	2/11/2026