



Incident Number: nAPP2517135924

## **Release Assessment and Deferral**

**PLU Big Sinks 25 Federal Battery  
Unit B, Section 36, Township 24 South, Range 30 East  
Facility ID: fAPP2123047138  
County: Eddy  
Vertex File Number: 25A-03510**

**Prepared for:**  
ExxonMobil Upstream Company

**Prepared by:**  
Vertex Resource Services Inc.

**Date:**  
December 2025

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

**Release Assessment and Deferral**  
**PLU Big Sinks 25 Federal Battery**  
**Unit B, Section 36, Township 24 South, Range 30 East**  
**Facility: fAPP2123047138**  
**County: Eddy**

Prepared for:

**ExxonMobil Upstream Company**  
6488 Seven Rivers Highway  
Artesia, New Mexico 88210

**New Mexico Oil Conservation Division**  
508 West Texas Avenue  
Artesia, New Mexico 88210

Prepared by:

**Vertex Resource Services Inc.**  
3101 Boyd Drive  
Carlsbad, New Mexico 88220

*Riley Arnold*

Riley Arnold, B.Sc.  
ENVIRONMENTAL SPECIALIST, REPORTING

12/10/2025

Date

*Chad Hensley*

Chad Hensley, B. Sc. GCNR  
SENIOR PROJECT MANAGER, REPORT REVIEW

12/16/2025

Date

## Table of Contents

<b>1.0</b>	<b>Introduction .....</b>	<b>1</b>
<b>2.0</b>	<b>Incident Description .....</b>	<b>1</b>
<b>3.0</b>	<b>Site Characteristics .....</b>	<b>1</b>
<b>4.0</b>	<b>Closure Criteria Determination .....</b>	<b>2</b>
<b>5.0</b>	<b>Remedial Actions Taken .....</b>	<b>4</b>
5.1	Initial Characterization .....	4
5.2	Liner Inspection.....	5
<b>6.0</b>	<b>Closure Request .....</b>	<b>5</b>
<b>7.0</b>	<b>References.....</b>	<b>7</b>
<b>8.0</b>	<b>Limitations .....</b>	<b>8</b>

## **In-text Tables**

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils Impacted by a Release

## **List of Figures**

- Figure 1. Site Schematic
- Figure 2. Characterization Sampling Site Schematic

## **List of Tables**

- Table 3. Initial Characterization Sample and Laboratory Results – Depth to Groundwater > 100 feet bgs

## **List of Appendices**

- Appendix A. Closure Criteria Research Documentation
- Appendix B. Daily Field Reports and Liner Inspection
- Appendix C. Notifications and Variances
- Appendix D. Laboratory Data Reports and Chain of Custody Forms
- Appendix E. Liner Inspection

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

## 0.0 Amendment to Closure Report

The following report has been updated and includes a summary of efforts and justifications to amend deferral denial concerns notated by New Mexico Oil Conservation Division on October 9, 2025.

## 1.0 Introduction

ExxonMobil Upstream Company (ExxonMobil) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Deferral for a produced water release that occurred on June 15, 2025, at PLU Big Sinks 25 Federal Battery API 30-015-41091 (hereafter referred to as the "site"). ExxonMobil submitted an initial C-141 New Mexico Oil Conservation Division (NMOCD) on June 24, 2025. Incident ID number nAPP2517135924 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

## 2.0 Incident Description

The release was discovered on June 15, 2025, after a hole developed in a BV valve releasing fluid from the discharge side of the associated transfer pump. The incident was reported on June 15, 2025, and involved the release of approximately thirty-three (33) barrels (bbl.) of produced water released. With thirty (30) bbl. of produced water released into lined containment and 3 bbl. of produced water on a permeable surface. Approximately (30) thirty bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

## 3.0 Site Characteristics

The site is located approximately 14.34 miles southeast of Malaga, New Mexico (Google Inc., 2025). The legal location for the site is Unit B, Section 36, Township 24 South, Range 30 East in Eddy County, New Mexico. The spill area is located on State Land property. An aerial photograph and site schematic are presented on Figure 1.

*The Geological Map of New Mexico* (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprised Qoa - older alluvial deposits of upland plains and piedmont areas. Predominant soil textures on the site are gravelly fine sandy loam, silty clay loam, and clay loam. The Natural Resources Conservation Service *Web Soil Survey* characterizes the predominant soil texture at the site as Simona-Bippus complex. It tends to be well drained with very high runoff and very low available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2025). The site is in an area of low karst potential (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with plains, alluvial fans, and flood plains at elevations of 1,800 to 5,000 feet

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

above sea level. The climate is semi-arid, with annual precipitation ranging between 8 to 24 inches. Historically, the plant community had a grassland aspect, dominated by grasses with shrubs. Black grama and sacaton are dominant with a mixture of creosotebush and mesquite shrubs. Overgrazing and extended drought can reduce grass cover (United States Department of Agriculture, Natural Resources Conservation Service, 2025).

There is no surface water located at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC (New Mexico Oil Conservation Division, 2018), is the Pecos River located approximately 41,433 feet west of the site. There is an emergent wetland located approximately 6,399 feet northwest of the release, which is inside the threshold outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC (United States Fish and Wildlife Service, 2025).

#### **4.0 Closure Criteria Determination**

The depth to groundwater was determined using the New Mexico Office of the State Engineer Water Column/Average Depth to Water reports. A 0.55-mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be greater than 110 feet below ground surface (bgs) and 2,925 feet from the site (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2025). On July 3, 2025, NMOCD approved a variance request allowing for OSE POD C-04478 to be referenced as the depth to groundwater (DTGW) well (see Appendix C). Documentation used in Closure Criteria Determination research is included in Appendix A.

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

**Table 1. Closure Criteria Determination**

Site Name: PLU Big Sinks 25 Federal Battery		X: UTM easting	Y: UTM northing	
Spill Coordinates: 32.18147, -103.83312		Value	Unit	Reference
<b>Site Specific Conditions</b>				
1	Depth to Groundwater (nearest reference)	>110	feet	1
	Distance between release and nearest DTGW reference	2,925	feet	
		0.55	miles	
Date of nearest DTGW reference measurement		October 7, 2020		
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	41,433	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,622	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	53,714	feet	4
5	i) 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, or	70,168	feet	5
	ii) Within 1000 feet of any fresh water well or spring	70,168	feet	
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	feet	6
7	Within 300 feet of a wetland	6,399	feet	7
8	Within the area overlying a subsurface mine	No	feet	8
	Distance between release and nearest registered mine	9,778	feet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area	27,716	feet	
10	Within a 100-year Floodplain	500	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	7,455	feet	
11	Soil Type	BB, Berino Complex		11
12	Ecological Classification	R070BD003NM — Loamy Sand		12
13	Geology	older alluvial deposits of upland plains and piedmont areas		13
	<b>NMAC 19.15.29.12 E (Table 1) Closure Criteria</b>	>100'	<50' 51-100' >100'	

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

**Table 2. Closure Criteria for Soils Impacted by a Release**

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - Total dissolved solids

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

## 5.0 Remedial Actions Taken

### 5.1 Initial Characterization

Initial examination on June 26, 2025, ExxonMobil was informed that liner integrity was noted as compromised near the point of release. Multiple tears and puncture holes were seen in the initial inspection and are noted in picture by sample BH25-03 on June 26, 2025. The Daily Field Report and associated photographs of the initial inspection are included in Appendix B.

Vertex requested permission to cut into the liner to collect samples BH25-01 and BH25-02 for horizontal delineation and a sample at BH25-03 for vertical delineation near the compromised area. A request was made to ExxonMobil to replace the liner and was approved. Initial characterization soil sampling was completed, with boreholes advanced via hand auger to investigate the impact of the liner perforations. Four boreholes were established outside of containment for horizontal and vertical delineation to cover the three-bbl. overspray, and three more points were established inside the containment beneath the liner for vertical delineation. The borehole BH25-03 inside the tank battery was advanced to refusal at a depth of 2 feet bgs. Vertical delineation was not achievable inside the tank battery. A bore hole outside of the tank battery at BH25-07 was attempted, but refusal was reached again at 2 feet bgs and the borehole was abandoned. On August 8, 2025, a second attempt was conducted with test pit (TP25-01) via backhoe positioned just outside of tank battery to achieve vertical delineation. Vertical delineation was achieved at 6 feet bgs. Impacted soils were field screened and collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratory Analysis under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chloride (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data report is included in Appendix D.

Sample BH25-03 boreholes inside the containment yielded results that exceeded NMOCD strictest criteria for TPH and/or chloride, while TP25-01 achieved vertical delineation. Deferral was requested for the portion of contaminated soil directly under the tank battery and containment as it would require extensive disassembly and movement of the infrastructure in addition to shut-in of the wells to complete remedial activities.

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

## 5.2 Liner Inspection

On August 5, 2025, Vertex provided 48-hour notification of the liner inspection to NMOCD, as required by Subparagraph (a) of Paragraph (5) of Subsection A 19.15.29.11 NMAC. On August 8, 2025, Vertex was on-site to conduct an inspection of the lined containment and verify that the liner was intact and had the ability to contain the release. Replacement of the liner had not been completed. A liner inspection was rescheduled for August 18, 2025, to capture the new liner installed. The Daily Field Report and associated photographs of the liner inspection are included in Appendix E.

## 6.0 Deferral Request

### 6.1 Closure Denial

Exxon submitted the initial closure report to the NMOCD on October 09, 2025. The initial request was denied on October 09, 2025, with the following notations:

- 1) *Vertical delineation is required to be completed. TP25-01 does not show vertical delineation as there are no impacts above Closure Criteria found there. BH 25-03 has GRO +DRO=1,333 mg/kg at 2' depth and delineation was stopped there. These impacts are required to be vertically delineated to confirm that the contamination does not cause an imminent risk to fresh water, public health and the environment.*
- 2) *Referring to the attached photos, it appears the liner's perforations were patched with duct tape. Is it still patched with duct tape? Explain.*
- 3) *The laboratory reports for samples collected at TP25-01 are not attached and are required per 19.15.29.12.E.(c).*

On November 13, 2025, Vertex personnel guided a skid steer operator utilizing a mechanical auger to bore a hole on the outside of the berm at the closest possible point from to BH25-03. A hole was cut on the outside portion of the berm, into the liner, and the auger was placed at a 195-degree angle in respect to the skid steer, and excavated toward the spill to a depth of 4 feet bgs. This position was chosen due to its avoidance of electrical lines running throughout the area. Sample TP25-02 was collected at 4 feet bgs for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal Laboratories under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix D. The liner was patched with appropriate materials after TP25-02 was collected.

Vertex recommends no additional remedial action to address the release at PLU Big Sinks 25 Federal Battery at this time. The secondary containment liner was mostly intact and contained the majority of the release. The liner has since been replaced and confirmed to be intact and capable of containing a release. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

As the release occurred under an active tank battery, Vertex requests that restoration and reclamation of the spill area be deferred until such time as the equipment is removed and the facility pad reclaimed per 19.15.29.13 NMAC.

**ExxonMobil Upstream Company**  
PLU Big Sinks 25 Federal Battery

**Release Assessment and Deferral**  
December 2025

Vertex requests that this incident (nAPP2517135924) be deferred for the area under the tank battery and containment, as the areas outside the containment have met closure requirements set forth in Subsection E of 19.15.29.12 NMAC. ExxonMobil certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on June 15, 2025, release at PLU Big Sinks 25 Federal Battery.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or CHensley@vertexresource.com

## 7.0 References

Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>

New Mexico Bureau of Geology and Mineral Resources. (2025). *Interactive Geologic Map*. Retrieved from <https://maps.nmt.edu/>

New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2025). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2025). *Web Soil Survey*. Retrieved from <https://websosilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karsts*. Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>.

United States Fish and Wildlife Service. (2025). *National Wetlands Inventory Surface Waters and Wetland*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

## 8.0 Limitations

This report has been prepared for the sole benefit of ExxonMobil Upstream Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and ExxonMobil Upstream Company. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

## FIGURES



◆ Borehole      ■ Approximate Lease Boundary  
■ Trench Sample      ■ Approximate Release Extent (~212 sq.ft.)



0 20 40 ft.

NAD 1983 UTM Zone 13N  
Date: Dec 16/25

Map Center:  
Lat: 32.181563°N,  
Long: 103.832978°W



### Characterization Schematic PLU Big Sinks 25 Fed Battery

FIGURE:  
1

ExxonMobil

Document Path: S:\04 - Geomatics\1-Projects\US PROJECTS\ExxonMobil Upstream Comp (Former XTO)\XTO Energy\202525A-03510 - PLU Big Sinks 25 Fed Battery\00 - ArcProj\PLU Big Sinks 25 Fed Battery.aprx

Note: Georeferenced image from Google Earth, 2024. Approximate lease boundary from imagery by Vertex Professional Services Ltd. (VPS), 2025.  
Site features from GPS by VPS, 2025.

VERSATILITY. EXPERTISE.

## TABLES

Client Name: ExxonMobil Upstream Company

Site Name: PLU Big Sinks 25 Fed Battery

NMOCD Tracking #: nAPP2517135924

Project #: 25A-03510

Lab Report(sX): H253918, H254959, H255842, &amp; H257600

Table 3. Initial Characterization/Confirmatory Sample Field Screen and Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Inorganic
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Depth to Groundwater > 100 feet bgs										
BH25-01	0	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	128
	1	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	112
BH25-02	0	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	240
	1	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	304
BH25-03	0	June 26, 2025	ND	ND	117	9660	1200	9777	10977	960
	1	June 26, 2025	ND	ND	ND	428	84	428	512	768
	2R	June 26, 2025	ND	ND	13	1320	233	1333	1566	1020
BH25-04	0	June 26, 2025	ND	ND	ND	11	ND	11	11	64
BH25-05	0	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	224
BH25-06	0	June 26, 2025	ND	ND	ND	ND	ND	ND	ND	176
BH25-07	-		-	-	-	-	-	-	-	-
BH25-08	0.5'	September 16, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-09	0.5'	September 16, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-10	0-0.5'	December 5, 2025	ND	ND	ND	ND	ND	ND	ND	192
BH25-11	0-0.5'	December 5, 2025	ND	ND	ND	ND	ND	ND	ND	176
TP25-01	0	August 8, 2025	ND	ND	ND	48	24	48	72	14800
	1	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	2400
	2	August 8, 2025	ND	ND	ND	ND	ND	0	0	1040
	3	August 8, 2025	ND	ND	ND	10	ND	10	10	1440
	4	August 8, 2025	ND	ND	ND	ND	ND	0	0	1310
	5	August 8, 2025	ND	ND	ND	ND	ND	0	0	960
	6	August 8, 2025	ND	ND	ND	ND	ND	0	0	416
	7	August 8, 2025	ND	ND	ND	ND	ND	0	0	240
	8	August 8, 2025	ND	ND	ND	ND	ND	0	0	256
	9	August 8, 2025	ND	ND	ND	ND	ND	0	0	320
TP25-02	4	November 13, 2025	ND	ND	ND	ND	ND	ND	ND	192

"R" indicates hand auger refusal

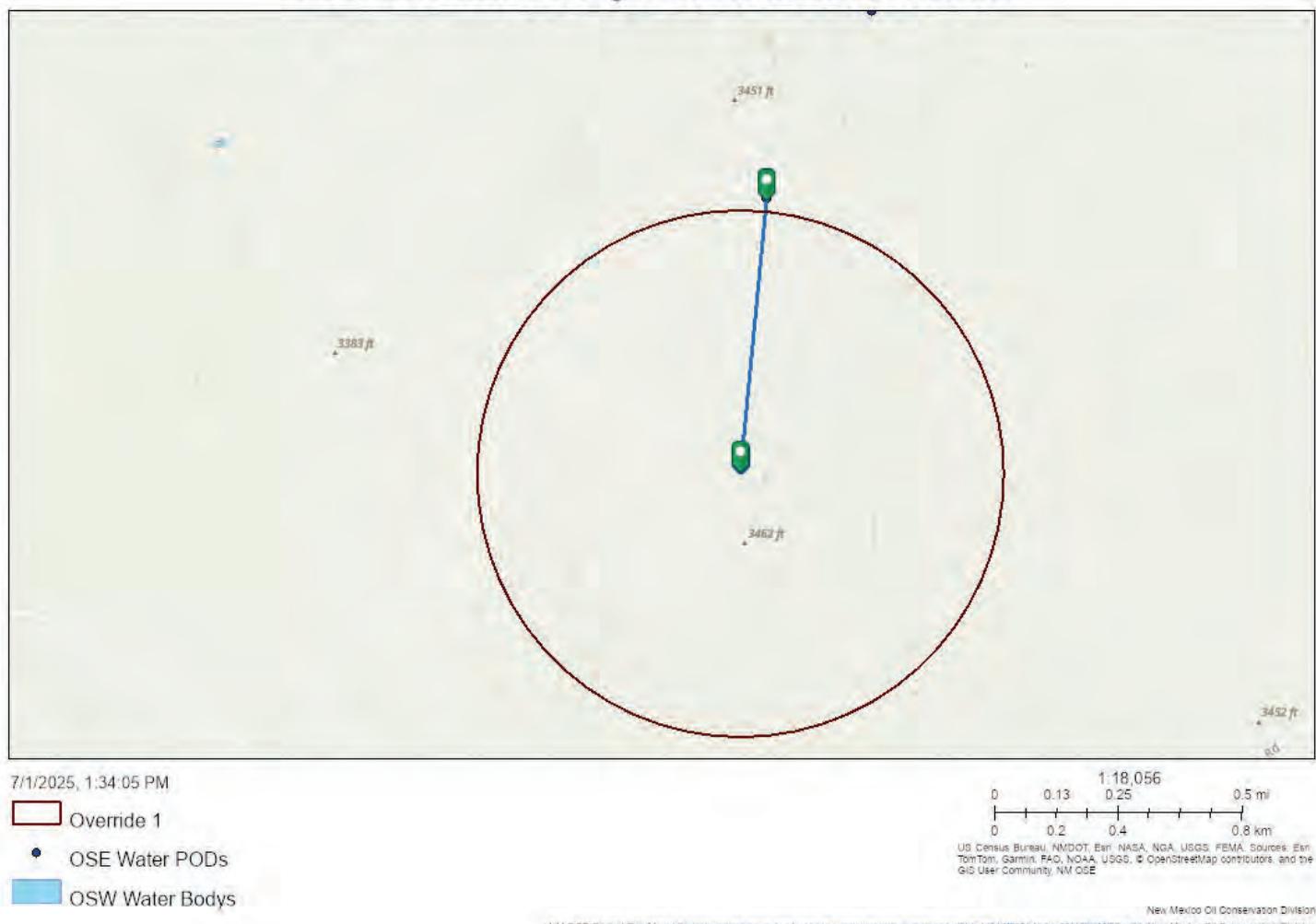
"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

## APPENDIX A – Closure Criteria Research Documentation

## 01. 0.55mi from PLU Big Sinks 25 to the Nearest Well



## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04478 POD1	SW	SW	NE	25	24S	30E	610077.4	3562041.1	

\* UTM location was derived from PLSS - see Help

**Driller License:** 1249      **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

**Driller Name:** ATKINS, JACKIE D.UELENER

**Drill Start Date:** 2020-10-07    **Drill Finish Date:** 2020-10-07    **Plug Date:** 2020-10-15

**Log File Date:** 2020-10-29    **PCW Rcv Date:**    **Source:**

**Pump Type:**    **Pipe Discharge Size:**    **Estimated Yield:**

**Casing Size:**    **Depth Well:** 0    **Depth Water:** 0

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

7/1/25 1:07 PM MST

Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | [Disclaimer](#) | [Contact Us](#) | [Help](#) | [Home](#) |

## Water Right Summary



[get image](#)  
[list](#)

<b>WR File Number:</b>	C 04478	<b>Subbasin:</b>	CUB	<b>Cross Reference:</b>
<b>Primary Purpose:</b>	MON MONITORING WELL			
<b>Primary Status:</b>	PMT Permit			
<b>Total Acres:</b>			<b>Subfile:</b>	<b>Header:</b>
<b>Total Diversion:</b>	0.000		<b>Cause/Case:</b>	
<b>Owner:</b>	LT ENVIRONMENTAL INC		<b>Owner Class:</b>	Agent
<b>Contact:</b>	KALEI JENNINGS			
<b>Owner:</b>	XTO ENERGY INC		<b>Owner Class:</b>	User
<b>Contact:</b>	KYLE LITTRRELL			

### Documents on File

(acre-fee)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion
<a href="#">get images</a> <a href="#">678382</a>	678382	EXPL	2020-09-09	PMT	LOG	C 04478 POD1	T	0.000	0.000

### Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
<a href="#">C 04478 POD1</a>	NA		SW	SW	NE	25	24S	30E	610077.4	3562041.1		BH-01

\* UTM location was derived from PLSS - see Help

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

7/1/25 11:46 AM MST

Water Rights Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | [Disclaimer](#) | [Contact Us](#) | [Help](#) | [Home](#) |



**WELL RECORD & LOG**  
**OFFICE OF THE STATE ENGINEER**  
**[www.ose.state.nm.us](http://www.ose.state.nm.us)**

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. 100-4478	POD NO. 1	TRN NO. 68382
LOCATION 24S-30E-25 0-3-3	WELL TAG ID NO. N/A	PAGE 1 OF 2

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)		
FILE NO.	POD NO.		TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2	

# 2020-10-26\_C-4478POD1\_OSE\_Well Record and Log-89-forsign

## Final Audit Report

2020-10-27

Created: 2020-10-27  
By: Lucas Middleton (lucas@atkinseng.com)  
Status: Signed  
Transaction ID: CBJCHBCAABAAESGKFRG9AU3NcytvOCSRntC1Y-zTs43Y

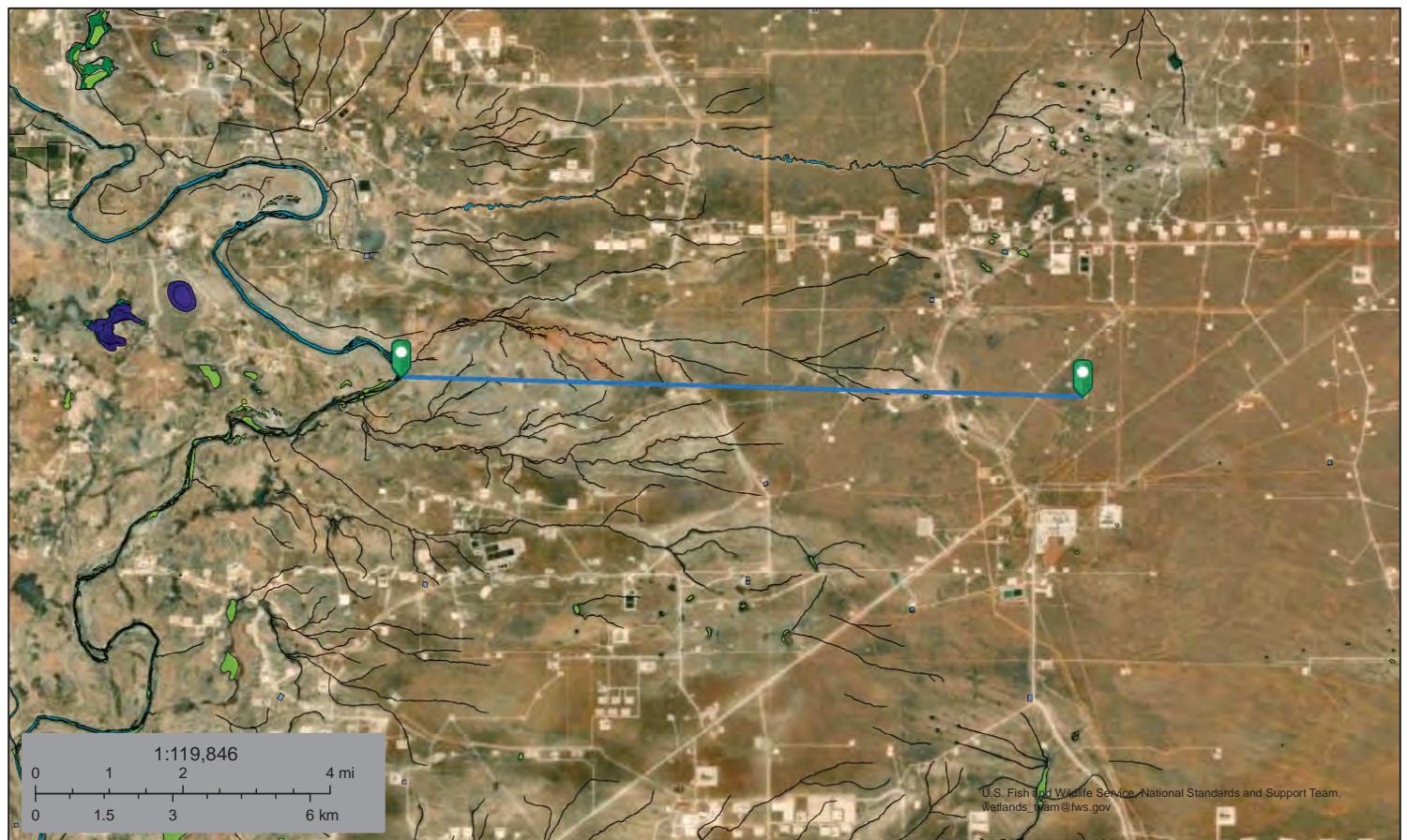
## "2020-10-26\_C-4478POD1\_OSE\_Well Record and Log-89-forsign History

- ✉ Document created by Lucas Middleton (lucas@atkinseng.com)  
2020-10-27 - 3:14:03 PM GMT- IP address: 69.21.248.123
- ✉ Document emailed to Jack Atkins (jack@atkinseng.com) for signature  
2020-10-27 - 3:14:17 PM GMT
- ✉ Email viewed by Jack Atkins (jack@atkinseng.com)  
2020-10-27 - 3:21:12 PM GMT- IP address: 74.50.153.115
- ✍ Document e-signed by Jack Atkins (jack@atkinseng.com)  
Signature Date: 2020-10-27 - 3:22:09 PM GMT - Time Source: server- IP address: 74.50.153.115
- ✓ Agreement completed.  
2020-10-27 - 3:22:09 PM GMT





02\_PLU Big Sinks 25 Federal Battery\_Wat



August 6, 2025

**Wetlands**

<span style="background-color: #006400; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Estuarine and Marine Deepwater
<span style="background-color: #008080; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Estuarine and Marine Wetland

<span style="background-color: #800000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Freshwater Emergent Wetland
<span style="background-color: #008000; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Freshwater Forested/Shrub Wetland
<span style="background-color: #006400; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Freshwater Pond
<span style="background-color: #0000CD; border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span>	Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

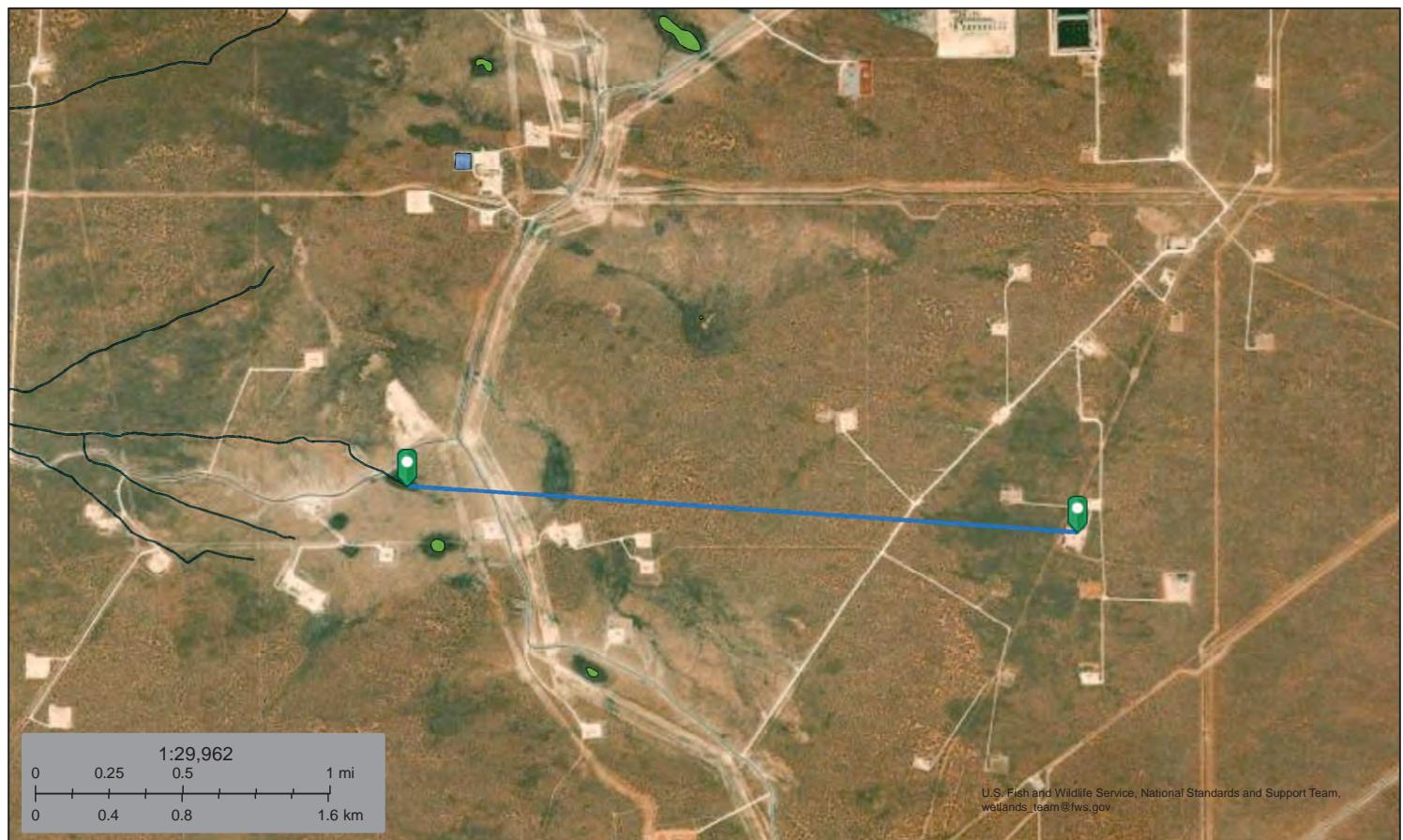
National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper



U.S. Fish and Wildlife Service

## National Wetlands Inventory

## 02. PLU Big Sinks 25 Federal Battery 1.93



July 1, 2025

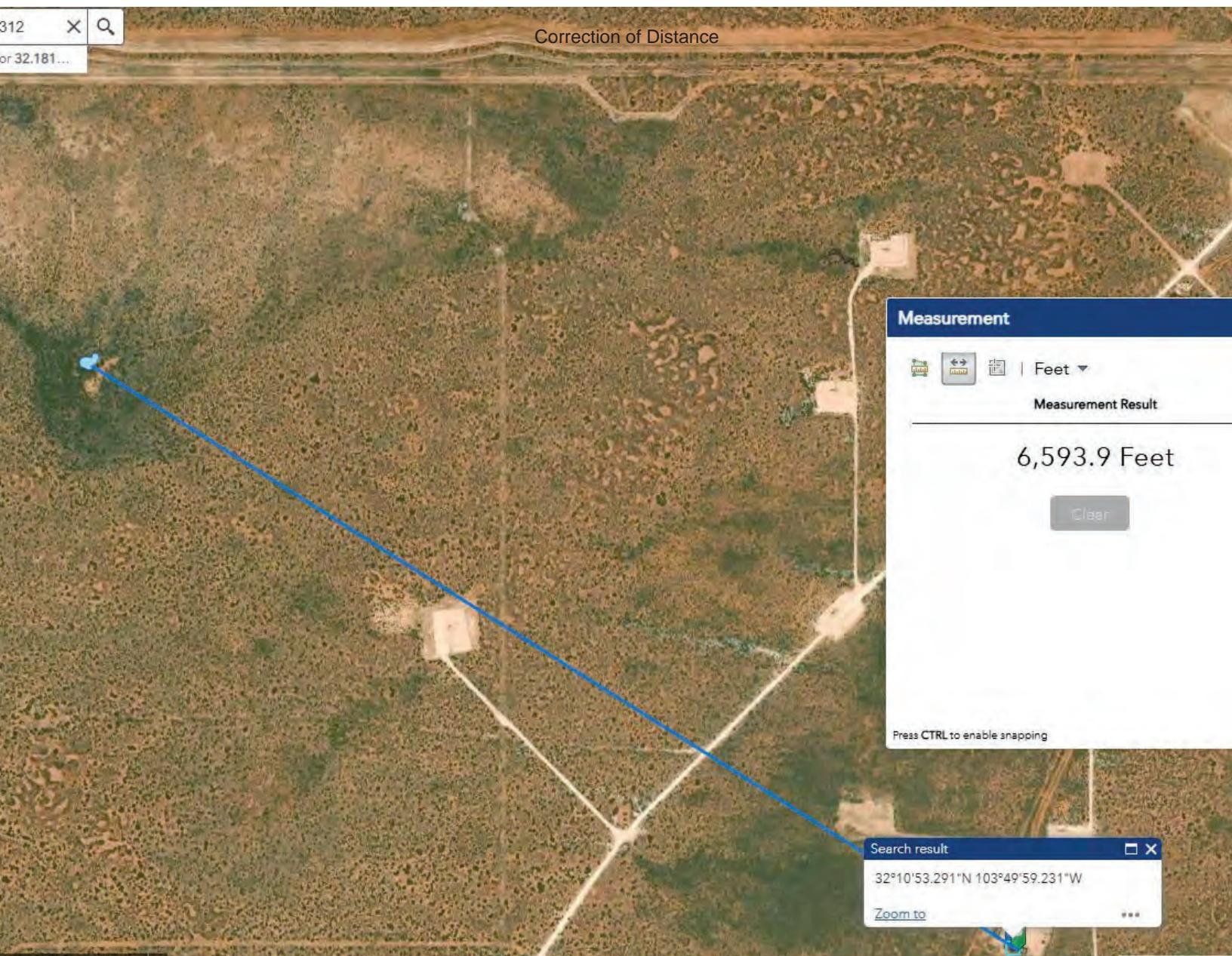
## Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Estuarine and Marine Wetland

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper



## 04. PLU Big Sinks 25 Federal Battery 10.17 to a Residence

Write a description for your map.

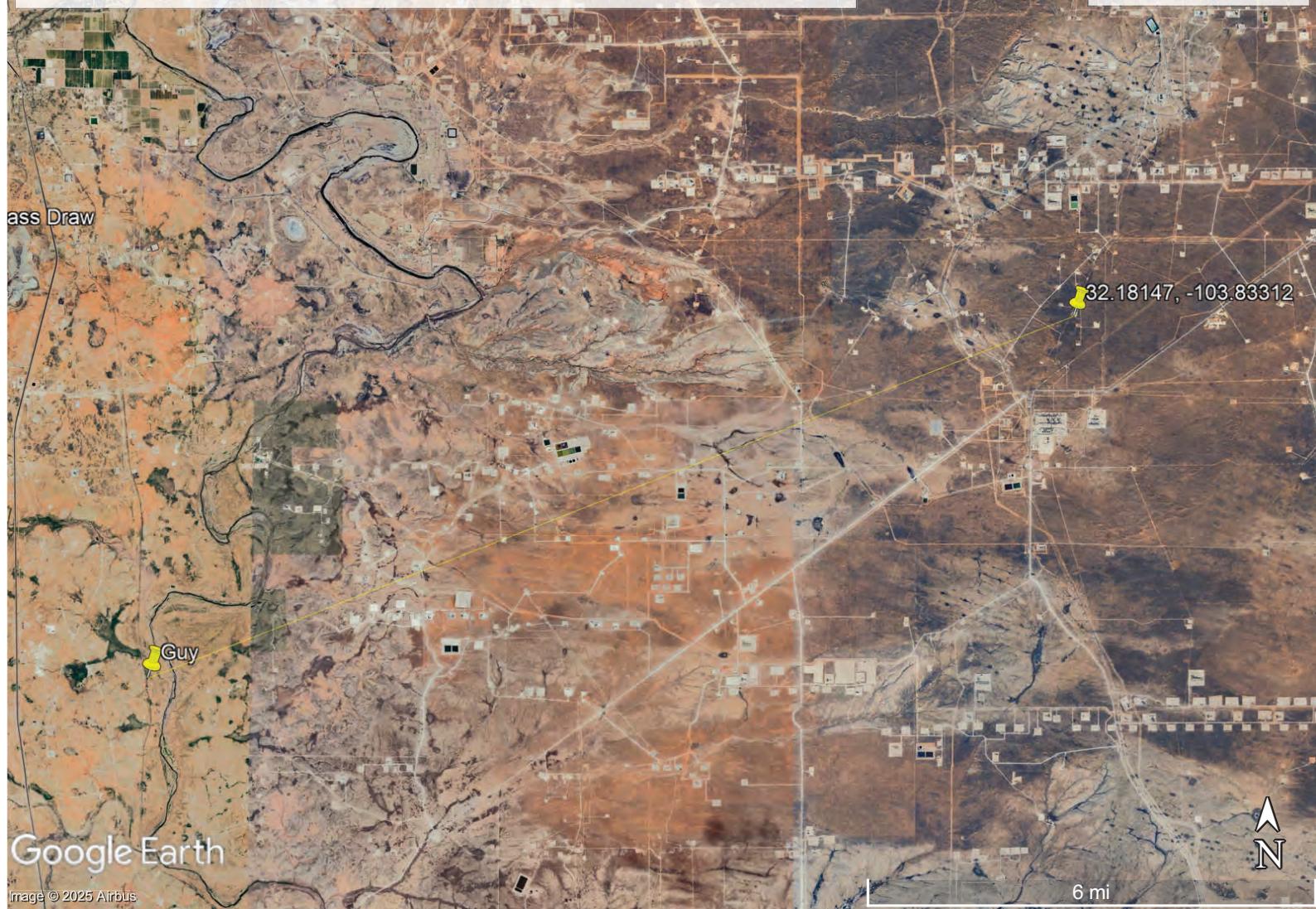
Legend  
Feature 1



## 05. PLU Big Sinks 25 Federal Battery 13.3mi to a spring

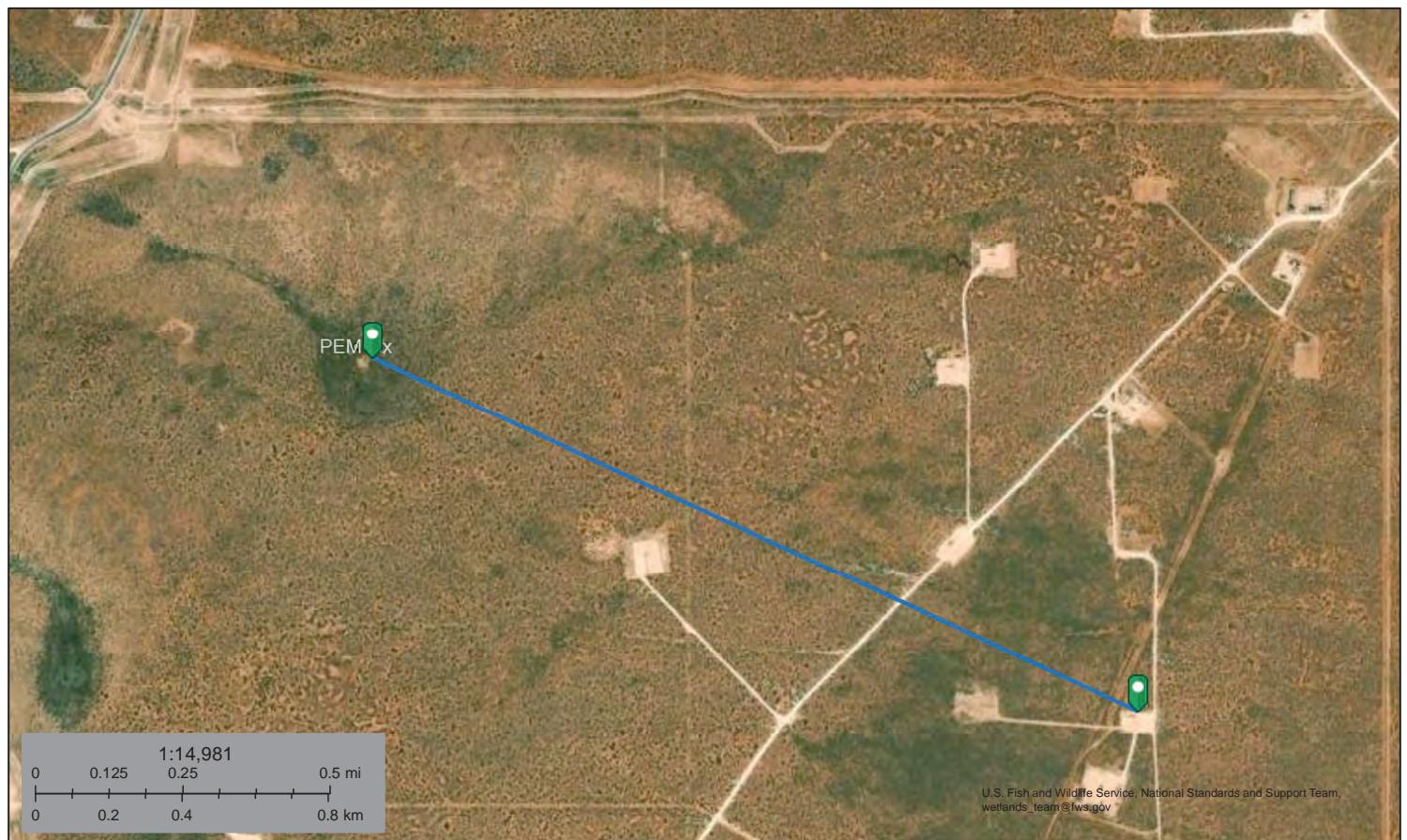
### Legend

PLU Big Sinks 25





## 07. PLU Big Sinks 25 1.21 miles from a We



July 1, 2025

**Wetlands**

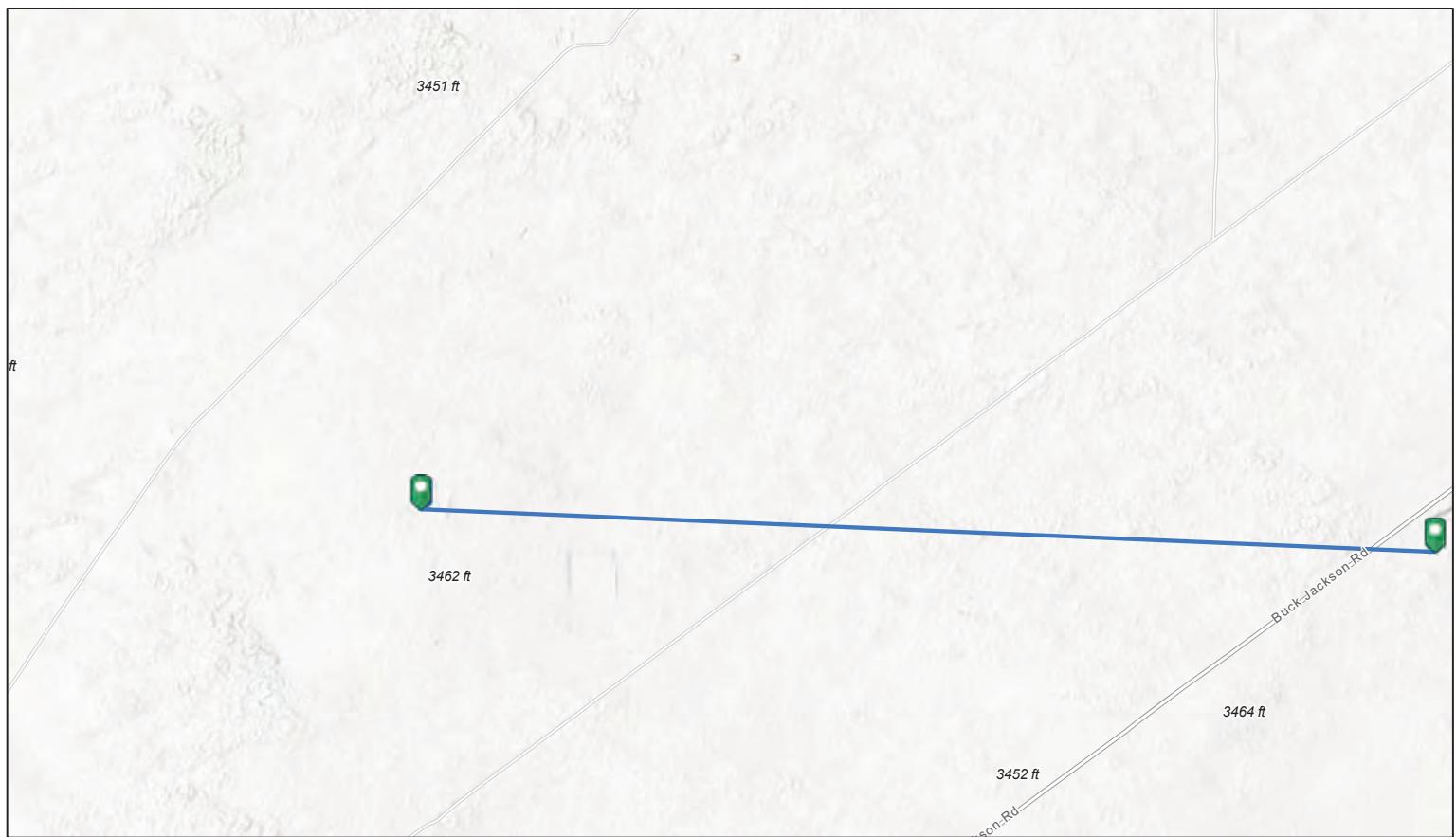
- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper

## 08. PLU Big Sinks 25 1.9mi from a Mine



7/1/2025, 2:45:47 PM

Registered Mines

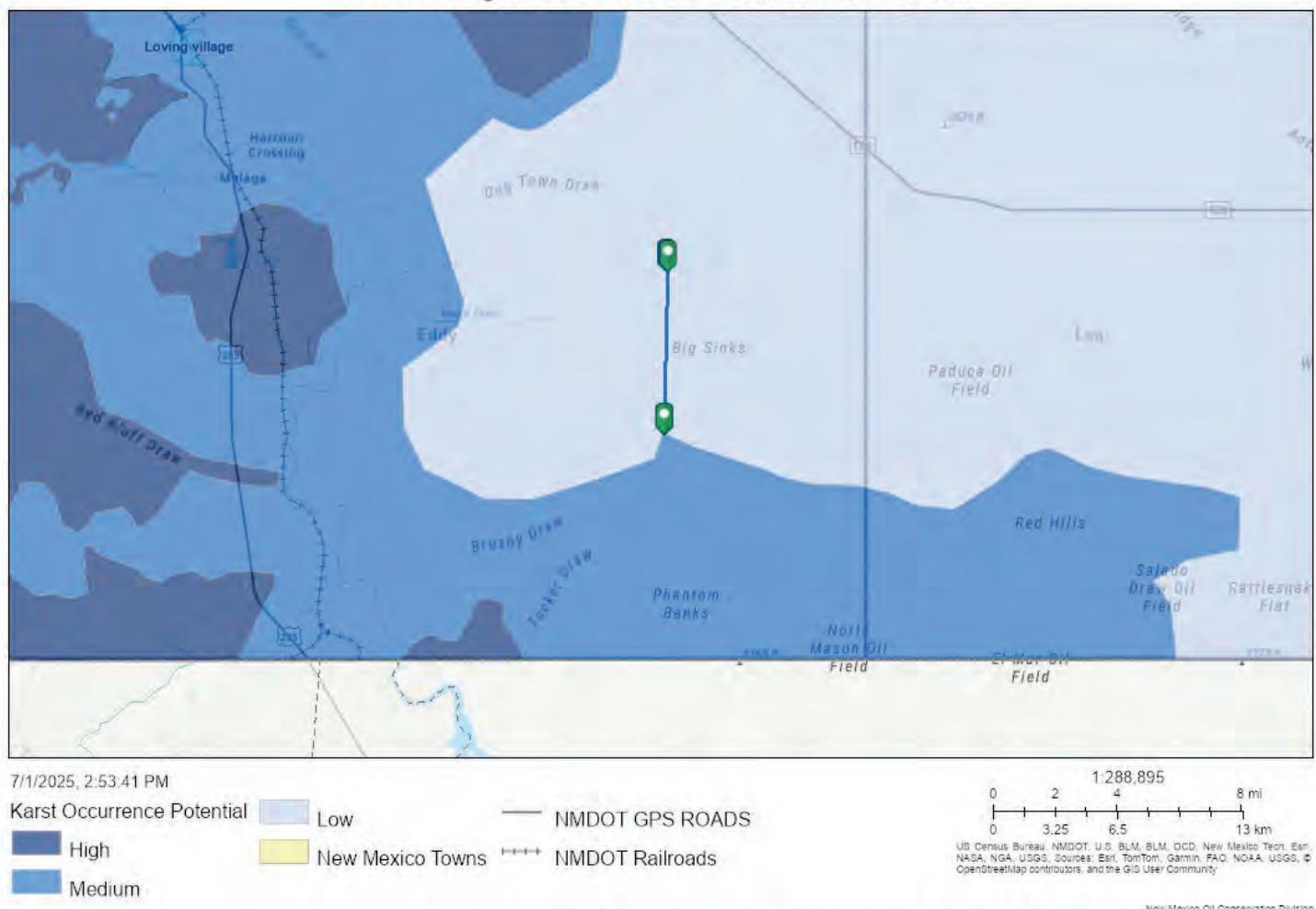
Aggregate, Stone etc.

1:18,056  
0 0.13 0.25 0.4 0.5 mi  
0 0.2 0.4 0.8 km

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

EMNRD MMD GIS Coordinator  
NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

## 09. PLU Big Sinks 25 is 5.3mi from a Karst area



# National Flood Hazard Layer FIRMette



103°50'18"W 32°11'9"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT	
<b>SPECIAL FLOOD HAZARD AREAS</b>	Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
<b>OTHER AREAS OF FLOOD HAZARD</b>	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D
<b>OTHER AREAS</b>	NO SCREEN Effective LOMRs Area of Undetermined Flood Hazard Zone D
<b>GENERAL STRUCTURES</b>	Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
<b>OTHER FEATURES</b>	20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
<b>MAP PANELS</b>	Digital Data Available No Digital Data Available Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/1/2025 at 9:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Custom Soil Resource Report  
Soil Map



## Custom Soil Resource Report

## MAP LEGEND

Area of Interest (AOI)	
	Area of Interest (AOI)
<b>Soils</b>	
	Soil Map Unit Polygons
	Soil Map Unit Lines
	Soil Map Unit Points
<b>Special Point Features</b>	
	Blowout
	Borrow Pit
	Clay Spot
	Closed Depression
	Gravel Pit
	Gravelly Spot
	Landfill
	Lava Flow
	Marsh or swamp
	Mine or Quarry
	Miscellaneous Water
	Perennial Water
	Rock Outcrop
	Saline Spot
	Sandy Spot
	Severely Eroded Spot
	Sinkhole
	Slide or Slip
	Sodic Spot
<b>Water Features</b>	
	Streams and Canals
<b>Transportation</b>	
	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads
<b>Background</b>	
	Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	32.4	100.0%
<b>Totals for Area of Interest</b>		<b>32.4</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

## Eddy Area, New Mexico

### BB—Berino complex, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w43  
*Elevation:* 2,000 to 5,700 feet  
*Mean annual precipitation:* 5 to 15 inches  
*Mean annual air temperature:* 57 to 70 degrees F  
*Frost-free period:* 180 to 260 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 60 percent  
*Pajarito and similar soils:* 25 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Berino

##### Setting

*Landform:* Plains, fan piedmonts  
*Landform position (three-dimensional):* Riser  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 17 inches:* fine sand  
*H2 - 17 to 58 inches:* sandy clay loam  
*H3 - 58 to 60 inches:* loamy sand

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BD003NM - Loamy Sand  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Pajarito****Setting**

*Landform*: Dunes, plains, interdunes  
*Landform position (three-dimensional)*: Side slope  
*Down-slope shape*: Convex, linear  
*Across-slope shape*: Convex, linear  
*Parent material*: Mixed alluvium and/or eolian sands

**Typical profile**

*H1 - 0 to 9 inches*: loamy fine sand  
*H2 - 9 to 72 inches*: fine sandy loam

**Properties and qualities**

*Slope*: 0 to 3 percent  
*Depth to restrictive feature*: More than 80 inches  
*Drainage class*: Well drained  
*Runoff class*: Very low  
*Capacity of the most limiting layer to transmit water (Ksat)*: High (2.00 to 6.00 in/hr)  
*Depth to water table*: More than 80 inches  
*Frequency of flooding*: None  
*Frequency of ponding*: None  
*Calcium carbonate, maximum content*: 40 percent  
*Maximum salinity*: Nonsaline (0.0 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum*: 1.0  
*Available water supply, 0 to 60 inches*: Moderate (about 8.0 inches)

**Interpretive groups**

*Land capability classification (irrigated)*: 2e  
*Land capability classification (nonirrigated)*: 7e  
*Hydrologic Soil Group*: A  
*Ecological site*: R070BD003NM - Loamy Sand  
*Hydric soil rating*: No

**Minor Components****Pajarito**

*Percent of map unit*: 4 percent  
*Ecological site*: R070BD003NM - Loamy Sand  
*Hydric soil rating*: No

**Wink**

*Percent of map unit*: 4 percent  
*Ecological site*: R070BD003NM - Loamy Sand  
*Hydric soil rating*: No

**Cacique**

*Percent of map unit*: 4 percent  
*Ecological site*: R070BD004NM - Sandy  
*Hydric soil rating*: No

**Kermit**

*Percent of map unit*: 3 percent  
*Ecological site*: R070BD005NM - Deep Sand  
*Hydric soil rating*: No

# Soil Information for All Uses

---

## Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

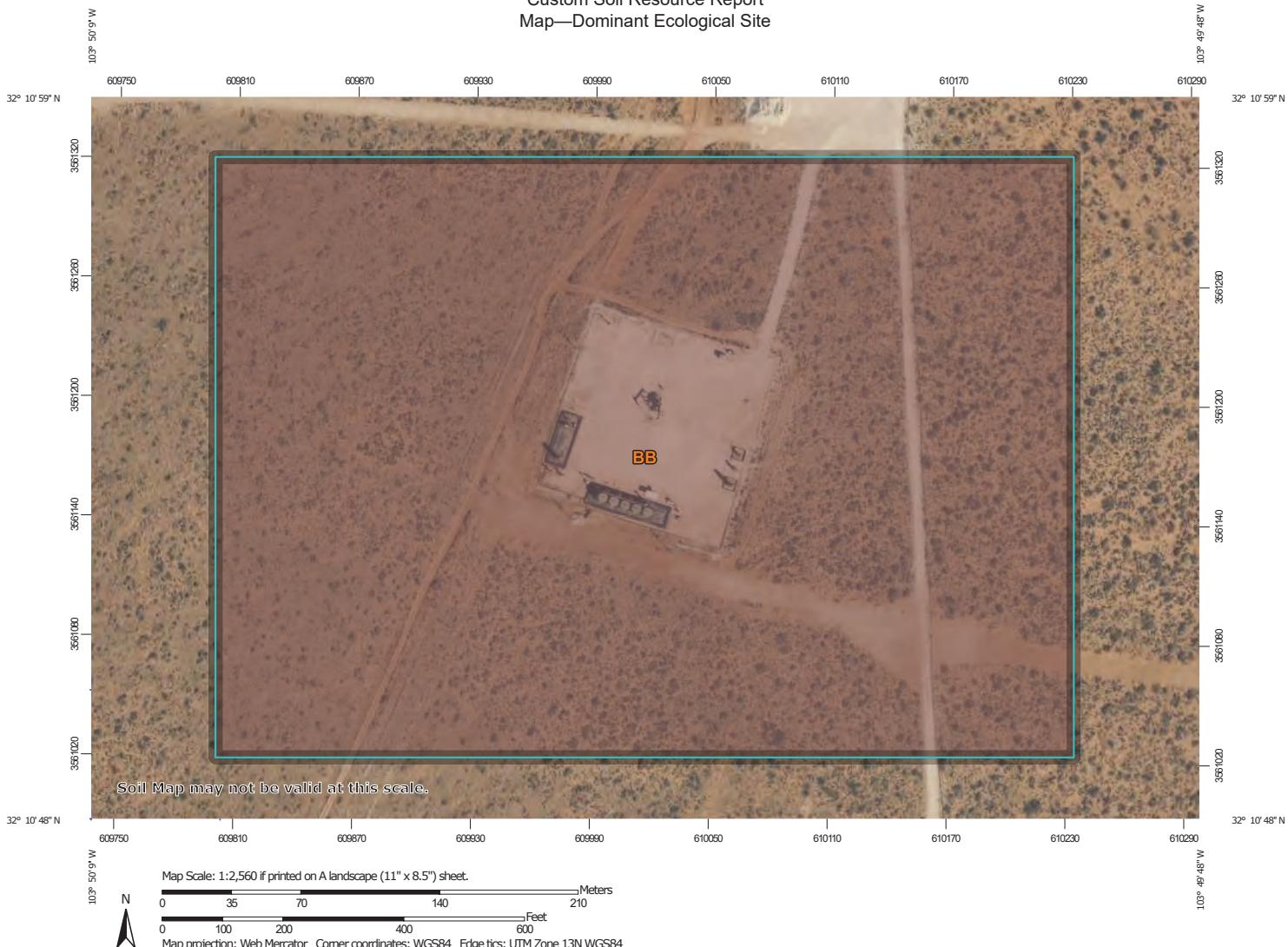
### All Ecological Sites —

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

Custom Soil Resource Report  
Map—Dominant Ecological Site



## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

## Soil Rating Polygons

 R070BD003NM

 Not rated or not available

## Soil Rating Lines

 R070BD003NM

 Not rated or not available

## Soil Rating Points

 R070BD003NM

 Not rated or not available

## Water Features

 Streams and Canals

## Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Ecological Sites by Map Unit Component**

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	Berino (60%)	R070BD003NM — Loamy Sand	32.4	100.0%
		Pajarito (25%)	R070BD003NM — Loamy Sand		
		Cacique (4%)	R070BD004NM — Sandy		
		Pajarito (4%)	R070BD003NM — Loamy Sand		
		Wink (4%)	R070BD003NM — Loamy Sand		
		Kermit (3%)	R070BD005NM — Deep Sand		
<b>Totals for Area of Interest</b>				<b>32.4</b>	<b>100.0%</b>

## References

---

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)

## APPENDIX B – Daily Field and Sampling Report(s)



## Daily Site Visit Report

Client: XTO Energy Inc. (US)

Incident ID #: \_\_\_\_\_

Site Location Name: \_\_\_\_\_

API #: \_\_\_\_\_

Inspection Date: 6/26/2025

\_\_\_\_\_

### Summary of Times

Arrived at Site 6/26/2025 9:30 AM

Departed Site 6/26/2025 2:30 PM

### Field Notes

**13:43** BH25-01 through BH25-03 were collected at 0 and 1'

**13:43** BH25-03 was collected at 2' with refusal

**13:43** BH25-04 through BH25-06 were collected at 0'

**13:44** All samples were field screened

**13:44** Map updates were made

### Next Steps & Recommendations

- 1 Create work plan
- 2 Send samples to lab

## Daily Site Visit Report



### Site Photos



## Daily Site Visit Report



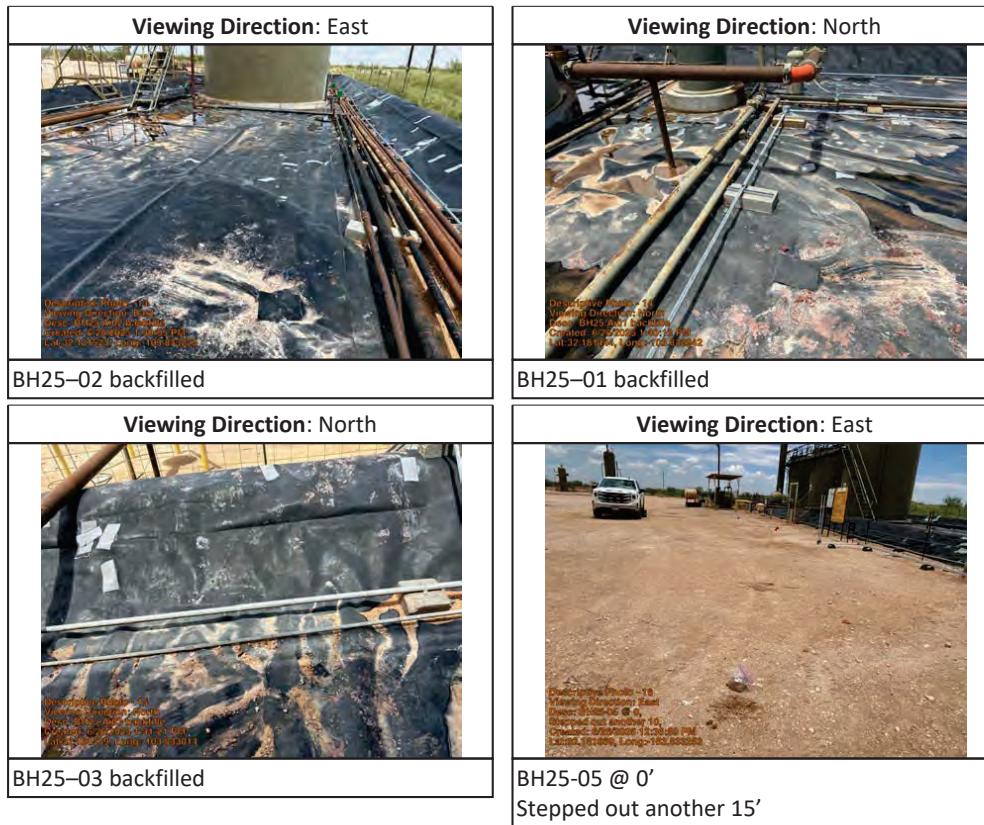
<p><b>Viewing Direction: East</b></p>  <p><b>Descriptive Photo - 6</b> Viewing Direction: East Date: BH25-05 @ 0' Stepped out 10' Created: 05/07/2019 11:07:54 AM Latitude: 31.1000000000 Longitude: -105.88200000</p> <p><b>BH25-05 @ 0'</b></p>	<p><b>Viewing Direction: East</b></p>  <p><b>Descriptive Photo - 6</b> Viewing Direction: East Date: BH25-05 @ 0' Stepped out 10' Created: 05/07/2019 11:07:54 AM Latitude: 31.1000000000 Longitude: -105.88200000</p> <p><b>BH25-05 @ 0' Stepped out 10'</b></p>
<p><b>Viewing Direction: South</b></p>  <p><b>Descriptive Photo - 7</b> Viewing Direction: South Date: BH25-04 @ 0' Stepped out 10' Created: 05/07/2019 11:07:54 AM Latitude: 31.1000000000 Longitude: -105.88200000</p> <p><b>BH25-04 @ 0' Stepped out 10'</b></p>	<p><b>Viewing Direction: East</b></p>  <p><b>Descriptive Photo - 8</b> Viewing Direction: East Date: BH25-02 @ 1' Stepped out 10' Created: 05/07/2019 11:07:54 AM Latitude: 31.1000000000 Longitude: -105.88200000</p> <p><b>BH25-02 @ 1'</b></p>



## Daily Site Visit Report

<p>Viewing Direction: West</p>  <p>Descriptive Photo - 0 Viewing Direction: West Date: 06/26/25 @ 11:10 AM Depth: 0' to 10' @ 1' intervals Lat: 32.101444, Long:-103.520244</p>	<p>Viewing Direction: North</p>  <p>Descriptive Photo - 1 Viewing Direction: North Date: 06/26/25 @ 11:10 AM Depth: 0' to 10' @ 1' intervals Lat: 32.101444, Long:-103.520244</p>
<p>BH25-01 @ 1'</p>	<p>BH25-03 @ 1'</p>
<p>Viewing Direction: South</p>  <p>Descriptive Photo - 3 Viewing Direction: South Date: 06/26/25 @ 11:10 AM Depth: 0' to 10' @ 1' intervals Lat: 32.101444, Long:-103.520244</p>	<p>Viewing Direction: East</p>  <p>Descriptive Photo - 12 Viewing Direction: East Date: 06/26/25 @ 11:10 AM Depth: 0' to 10' @ 1' intervals Lat: 32.101444, Long:-103.520244</p>
<p>BH25-04 @ 0' Stepped out another 10'</p>	<p>BH25-05 @ 0' Stepped out another 10'</p>

## Daily Site Visit Report



## Daily Site Visit Report



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to read 'Riley Arnold', positioned above a horizontal line.

**Daily Site Visit Report**

Client:	ExxonMobil	Incident ID #:	
Site Location Name:	PLU Big Sinks 25 Fed Battery	API #:	
Inspection Date:	7/1/2025		

**Summary of Times**

Arrived at Site	7/1/2025 9:10 AM
Departed Site	7/1/2025 10:00 AM

## Daily Site Visit Report



### Field Notes

**16:24** Safety paperwork was completed upon arrival

**16:25** 811 stakes were laid out on location

**16:26** Photos were added retroactive out of difficulties getting the report to generate

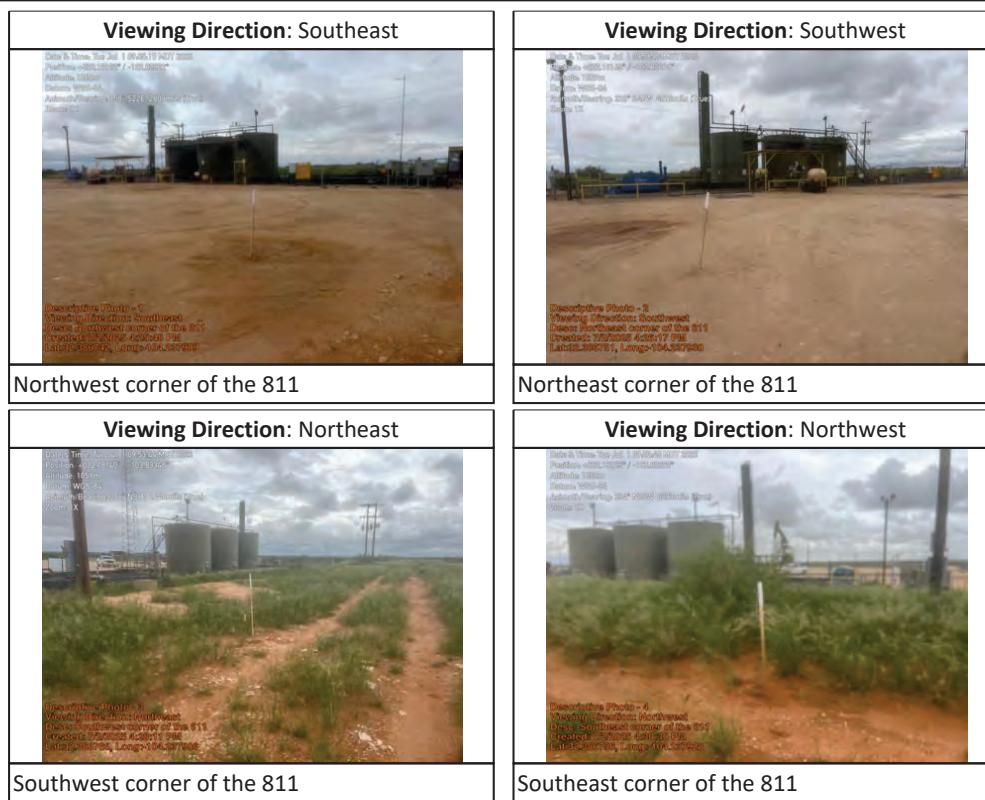
### Next Steps & Recommendations

1

## Daily Site Visit Report



### Site Photos



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Katrina Taylor

**Signature:**

A handwritten signature in black ink, appearing to read 'KT', positioned above a horizontal line.

**Daily Site Visit Report**

Client:	ExxonMobil	Incident ID #:	
Site Location Name:	PLU Big Sinks 25 Fed	API #:	
	Battery		
Inspection Date:	8/8/2025		

**Summary of Times**

Arrived at Site	8/8/2025 9:00 AM
Departed Site	8/8/2025 1:00 PM

## Daily Site Visit Report



### Field Notes

- 9:12** Travel to site/ safety paperwork
- 11:51** Test pit was excavated for vertical delineation
- 11:51** Hard rock slowed progress after 3'
- 11:52** TP25-01 through TP25-08 were collected and field screened
- 11:52** Samples were jarred and labeled/ coc's were created

### Next Steps & Recommendations

- 1** Send samples to lab
- 2** Reporting

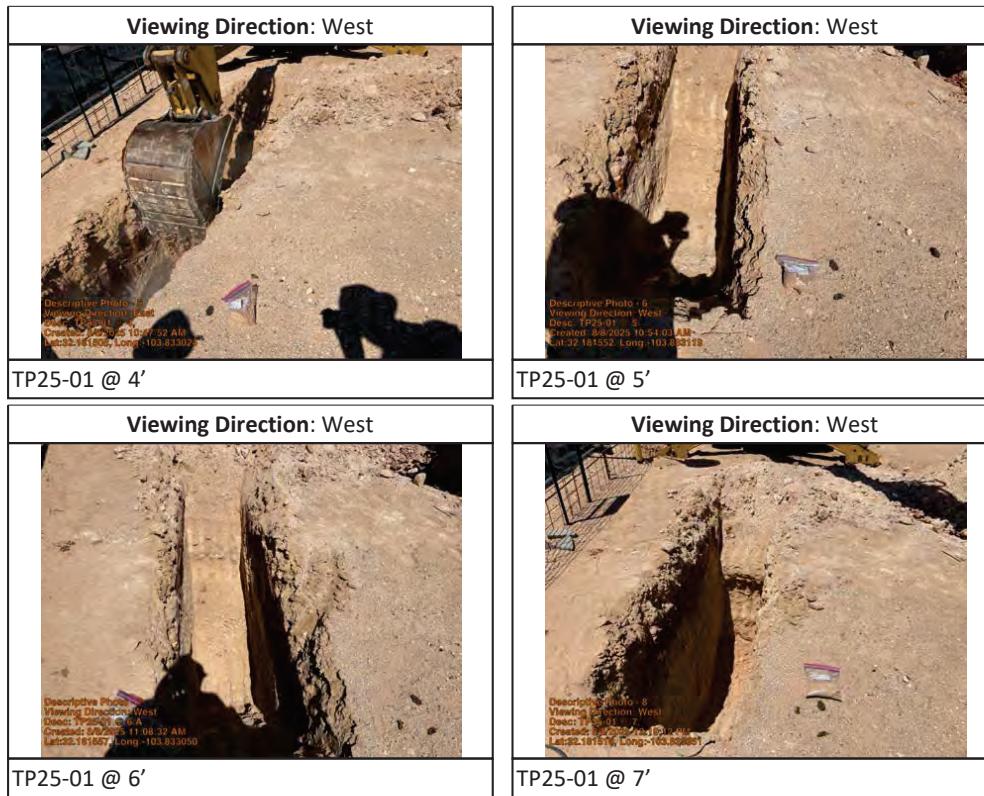
## Daily Site Visit Report



### Site Photos



## Daily Site Visit Report



## Daily Site Visit Report



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

Signature

A handwritten signature in black ink, appearing to read "RA", positioned above a horizontal line.

## Daily Site Visit Report



Client:	ExxonMobil	Incident ID #:	
Site Location Name:	PLU Big Sinks 25 Fed	API #:	
	Battery		
Inspection Date:	9/16/2025		

### Summary of Times

Arrived at Site	9/16/2025 11:45 AM
Departed Site	9/16/2025 12:30 PM

## Daily Site Visit Report



### Field Notes

- 12:15** Travel to site/ safety paperwork
- 12:15** BH25-08 & BH25-09 were collected at 0.5'
- 12:16** Samples were field screened
- 12:16** Samples were jarred and labeled
- 12:16** Coc were created
- 12:16** Map was updated

### Next Steps & Recommendations

- 1** Send samples to lab for further analysis
- 2** Reporting

## Daily Site Visit Report



### Site Photos

Viewing Direction: North	Viewing Direction: Northwest
	
BH25-08 @ 0.5'	BH25-09 @ 0.5'

## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

Signature

A handwritten signature in black ink, appearing to read "Riley Arnold".

## Daily Site Visit Report



Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	PLU Big Sinks 3-25-31 Battery	API #:	
Inspection Date:	11/13/2025		

### Summary of Times

Arrived at Site	11/13/2025 9:00 AM
Departed Site	11/13/2025 3:00 PM

## Daily Site Visit Report



### Field Notes

- 12:24** A hole was cut into liner
- 12:25** Auger drilled a hole to 4'
- 12:25** Sample was collected at 4' and field screened

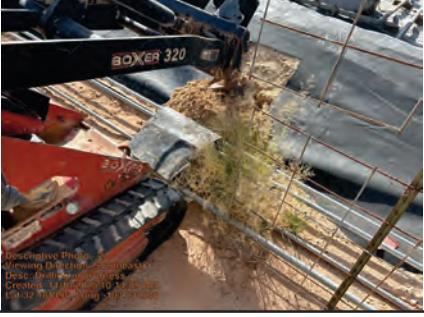
### Next Steps & Recommendations

1

## Daily Site Visit Report



### Site Photos

<p><b>Viewing Direction: South</b></p>  <p>Descriptive Photo Viewing Direction: South Date: 11/14/2025 7:27:00 PM UTC Created: 11/14/2025 7:27:00 PM UTC Last Edit: 11/14/2025 7:27:00 PM UTC</p>	<p><b>Viewing Direction: Southeast</b></p>  <p>Descriptive Photo Viewing Direction: Southeast Date: 11/14/2025 7:27:00 PM UTC Created: 11/14/2025 7:27:00 PM UTC Last Edit: 11/14/2025 7:27:00 PM UTC</p>
<p>Liner cut outside of tank battery. 195 degree angle</p>	<p>Drilling in progress</p>
<p><b>Viewing Direction: Southeast</b></p>  <p>Descriptive Photo Viewing Direction: Southeast Date: 11/14/2025 7:27:00 PM UTC Created: 11/14/2025 7:27:00 PM UTC Last Edit: 11/14/2025 7:27:00 PM UTC</p>	<p><b>Viewing Direction: Southeast</b></p>  <p>Descriptive Photo Viewing Direction: Southeast Date: 11/14/2025 7:27:00 PM UTC Created: 11/14/2025 7:27:00 PM UTC Last Edit: 11/14/2025 7:27:00 PM UTC</p>
<p>195 degree Hole</p>	<p>130 degree Hole 4 feet bgs.</p>

## Daily Site Visit Report



Viewing Direction: South	Viewing Direction: South
A photograph showing an auger hole that has been backfilled with soil. A small sign in the foreground reads: "Auger hole backfilled", "2025-11-14", "10:43:46 AM", "12/17/2025 8:43:46 AM", and "12/17/2025 8:43:46 AM".	A photograph showing a liner that has been patched, likely with a metal plate or similar material.
Auger hole backfilled	Liner patched

## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to read 'Riley Arnold', positioned above a thin horizontal line.



## Daily Site Visit Report

Client:	XTO Energy Inc. (US)	Incident ID #:	
Site Location Name:	PLU Big Sinks 3-25-31 Battery	API #:	
Inspection Date:	12/5/2025		

### Summary of Times

Arrived at Site	12/5/2025 12:45 PM
Departed Site	12/5/2025 1:30 PM

## Daily Site Visit Report



### Field Notes

- 12:43** Travel to site/ safety paperwork
- 12:44** BG25-10 and BG25-11 were collected at 0-6"
- 13:28** Samples were field screened
- 13:28** Samples were jarred and labeled
- 13:28** Coc's created
- 13:28** Map updated

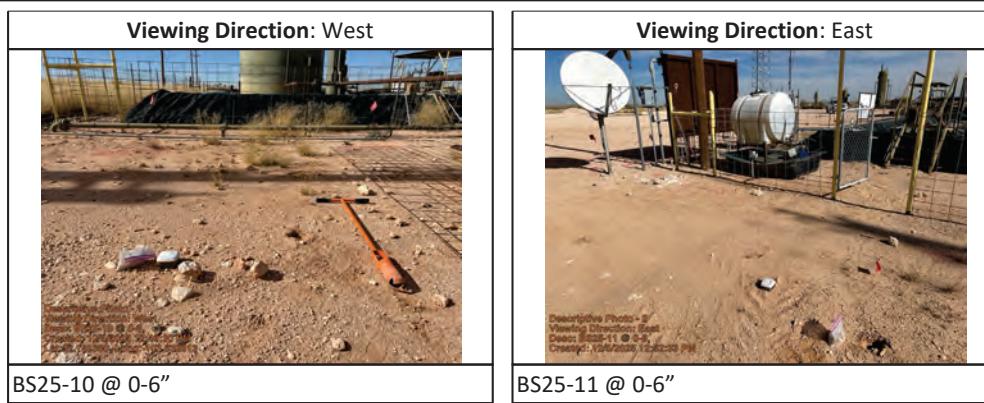
### Next Steps & Recommendations

- 1** Send samples to lab for further analysis
- 2** Report writing

## Daily Site Visit Report



### Site Photos



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to read 'Riley Arnold', positioned above a thin horizontal line.

## APPENDIX C – Notifications and Variances

From: [Wells, Shelly, EMNRD](#)  
 To: [Chad Hensley](#)  
 Cc: [Bratcher, Michael, EMNRD](#); [Riley Arnold](#); [ashley.a.mcafee@exxonmobil.com](#)  
 Subject: RE: [EXTERNAL] nAPP2517135924 - Variance Request for DTW  
 Date: Thursday, July 3, 2025 2:43:30 PM

**Caution:** This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Good afternoon Chad,

The variance request for NAPP2517135924 PLU BIG SINKS 25 FEDERAL BATTERY is approved to use OSE POD C-04478 which is .55 miles away from release location in order to remediate to Table I > 100 feet to ground water Closure Criteria. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced  
 Environmental Bureau  
 EMNRD-Oil Conservation Division  
 1220 S. St. Francis Drive|Santa Fe, NM 87505  
 (505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Chad Hensley <[Chensley@vertexresource.com](mailto:Chensley@vertexresource.com)>  
**Sent:** Thursday, July 3, 2025 9:36 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Riley Arnold <[RArnold@vertexresource.com](mailto:RArnold@vertexresource.com)>; Mcafee, Ashley A <[ashley.a.mcafee@exxonmobil.com](mailto:ashley.a.mcafee@exxonmobil.com)>  
**Subject:** [EXTERNAL] nAPP2517135924 - Variance Request for DTW

You don't often get email from [chensley@vertexresource.com](mailto:chensley@vertexresource.com). [Learn why this is important](#)

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To whom it may concern,

Vertex on behalf of ExxonMobil request a variance for DTW distant criteria.

**19.15.29.14 VARIANCES:**

A. A responsible party may file a written request for a variance from any requirement of 19.15.29 NMAC with the appropriate division district office. The variance request must include:

(1) a detailed statement explaining the need for a variance  
*Depth to water well is approximately 0.05 miles outside of the limit.*

(2) a detailed written demonstration that the variance will provide equal or better protection of fresh water, public health and the environment.

*C-4478 well was dry at 100 feet showing ground water exceeds 100 bgs.*

*Characterization as depicted below shows the site with no sensitive receptors.*

*Release did not leave location as shown in Site Inspection pdf*

Closure Criteria Determination			
Site Name: PLU Big Sinks 25 Federal Battery			
Spill Coordinates: 32.18147, -103.83312		X: UTM easting	Y: UTM northing
Site Specific Conditions		Value	Unit
			Reference

1	Depth to Groundwater (nearest reference)	2,925	feet	1
	Distance between release and nearest DTGW reference	100	feet	
		0.55	miles	
	Date of nearest DTGW reference measurement		October 7, 2020	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	10,208	feet	2
3	Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	54,625	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution, or church	53,714	feet	4
5	i) 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, <b>or</b>	70,168	feet	5
	ii) Within 1000 feet of any fresh water well or spring		feet	5
6	Within incorporated municipal boundaries or within a defined municipal freshwater field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	feet	6
7	Within 300 feet of a wetland	6,399	feet	7
8	Within the area overlying a subsurface mine	No	feet	8
	Distance between release and nearest registered mine	9,778	feet	
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low	9
	Distance between release and nearest unstable area	27,716	feet	
10	Within a 100-year Floodplain	500	year	10
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	7,455	feet	
11	Soil Type	BB, Berino Complex		11

**Chad Hensley**  
Senior Project Manager

Vertex Resource Services Inc.  
Carlsbad, NM 88220

P  
C 575.200.6167  
F

[www.vertex.ca](http://www.vertex.ca)

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

## **APPENDIX D – Laboratory Data Report and Chain of Custody Form**



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 07, 2025

CHAD HENSLEY  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: PLU BIG SINKS 25 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/30/25 12:10.

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,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 01 @ 0' (H253918-01)**

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	06/30/2025	ND	1.95	97.3	2.00	0.427	
Toluene*		<0.050	0.050	06/30/2025	ND	2.10	105	2.00	0.115	
Ethylbenzene*		<0.050	0.050	06/30/2025	ND	1.95	97.5	2.00	0.486	
Total Xylenes*		<0.150	0.150	06/30/2025	ND	5.87	97.8	6.00	0.0375	
Total BTEX		<0.300	0.300	06/30/2025	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		128	16.0	07/01/2025	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	07/01/2025	ND	192	96.1	200	2.38	
DRO >C10-C28*		<10.0	10.0	07/01/2025	ND	180	90.2	200	0.859	
EXT DRO >C28-C36		<10.0	10.0	07/01/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 01 @ 1' (H253918-02)**

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	06/30/2025	ND	1.95	97.3	2.00	0.427		
Toluene*	<0.050	0.050	06/30/2025	ND	2.10	105	2.00	0.115		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	1.95	97.5	2.00	0.486		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.87	97.8	6.00	0.0375		
Total BTEX	<0.300	0.300	06/30/2025	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	112	16.0	07/01/2025	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	07/01/2025	ND	192	96.1	200	2.38		
DRO >C10-C28*	<10.0	10.0	07/01/2025	ND	180	90.2	200	0.859		
EXT DRO >C28-C36	<10.0	10.0	07/01/2025	ND						

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 02 @ 0' (H253918-03)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/30/2025	ND	1.95	97.3	2.00	0.427		
Toluene*	<0.050	0.050	06/30/2025	ND	2.10	105	2.00	0.115		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	1.95	97.5	2.00	0.486		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.87	97.8	6.00	0.0375		
Total BTEX	<0.300	0.300	06/30/2025	ND						

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

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: KH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	07/01/2025	ND	416	104	400	0.00		
<b>TPH 8015M</b>										
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/01/2025	ND	192	96.1	200	2.38		
DRO >C10-C28*	<10.0	10.0	07/01/2025	ND	180	90.2	200	0.859		
EXT DRO >C28-C36	<10.0	10.0	07/01/2025	ND						

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 02 @ 1' (H253918-04)**

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	06/30/2025	ND	1.95	97.3	2.00	0.427		
Toluene*	<0.050	0.050	06/30/2025	ND	2.10	105	2.00	0.115		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	1.95	97.5	2.00	0.486		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.87	97.8	6.00	0.0375		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	304	16.0	07/01/2025	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	07/01/2025	ND	192	96.1	200	2.38		
DRO >C10-C28*	<10.0	10.0	07/01/2025	ND	180	90.2	200	0.859		
EXT DRO >C28-C36	<10.0	10.0	07/01/2025	ND						

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 03 @ 0' (H253918-05)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>					<b>S-04</b>	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	06/30/2025	ND	1.95	97.3	2.00	5.34	
Toluene*		<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43	
Ethylbenzene*		<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81	GC-NC
Total Xylenes*		<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07	
Total BTEX		<0.300	0.300	06/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 236 % 71.5-134

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: KH</b>						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>		<b>960</b>	16.0	07/01/2025	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					<b>S-04</b>	
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>		<b>117</b>	10.0	06/30/2025	ND	192	96.2	200	2.35	
<b>DRO &gt;C10-C28*</b>		<b>9660</b>	10.0	06/30/2025	ND	189	94.4	200	1.46	QM-07
<b>EXT DRO &gt;C28-C36</b>		<b>1200</b>	10.0	06/30/2025	ND					

Surrogate: 1-Chlorooctane 122 % 44.4-145

Surrogate: 1-Chlorooctadecane 363 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 03 @ 1' (H253918-06)**

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	06/30/2025	ND	1.95	97.3	2.00	5.34		
Toluene*	<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	768	16.0	07/01/2025	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	06/30/2025	ND	192	96.2	200	2.35		
DRO >C10-C28*	438	10.0	06/30/2025	ND	189	94.4	200	1.46		
EXT DRO >C28-C36	84.4	10.0	06/30/2025	ND						

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 03 @ 2'R (H253918-07)**

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	06/30/2025	ND	1.95	97.3	2.00	5.34		
Toluene*	<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81	GC-NC	
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	1020	16.0	07/01/2025	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*	12.5	10.0	06/30/2025	ND	192	96.2	200	2.35		
DRO >C10-C28*	1320	10.0	06/30/2025	ND	189	94.4	200	1.46		
EXT DRO >C28-C36	233	10.0	06/30/2025	ND						

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 126 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 04 @ 0' (H253918-08)**

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	06/30/2025	ND	1.95	97.3	2.00	5.34		
Toluene*	<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	<b>64.0</b>	16.0	07/01/2025	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	06/30/2025	ND	192	96.2	200	2.35		
<b>DRO &gt;C10-C28*</b>	<b>10.7</b>	10.0	06/30/2025	ND	189	94.4	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 05 @ 0' (H253918-09)**

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	06/30/2025	ND	1.95	97.3	2.00	5.34		
Toluene*	<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	07/01/2025	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	06/30/2025	ND	192	96.2	200	2.35		
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND						

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	06/30/2025	Sampling Date:	06/26/2025
Reported:	07/07/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 06 @ 0' (H253918-10)**

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	06/30/2025	ND	1.95	97.3	2.00	5.34		
Toluene*	<0.050	0.050	06/30/2025	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	06/30/2025	ND	2.01	101	2.00	4.81		
Total Xylenes*	<0.150	0.150	06/30/2025	ND	5.97	99.6	6.00	5.07		
Total BTEX	<0.300	0.300	06/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	176	16.0	07/01/2025	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	06/30/2025	ND	192	96.2	200	2.35		
DRO >C10-C28*	<10.0	10.0	06/30/2025	ND	189	94.4	200	1.46		
EXT DRO >C28-C36	<10.0	10.0	06/30/2025	ND						

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Notes and Definitions

S-04      The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

GC-NC      8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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

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.

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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

Company Name: <i>Vertex Resource</i>		BILL TO			ANALYSIS REQUEST													
Project Manager: <i>Chad Hensley</i>		P.O. #:																
Address: <i>3101 Boyd drive</i>		Company: <i>ExxonMobil</i>																
City: <i>Carlsbad</i>		Attn: <i>Ashley McAfee</i>																
Phone #: <i>575-200-6167</i>		Address: <i>3104 EG Scene St</i>																
Project #: <i>25A-03510</i>		City: <i>Carlsbad</i>																
Project Name: <i>PLU Big Sinks 25 Batt</i>		State: <i>NM</i> Zip: <i>88220</i>																
Project Location:		Phone #:																
Sampler Name: <i>Riley Arnold</i>		Fax #:																
FOR LAB USE ONLY		MATRIX			PRESERV.		SAMPLING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<i>BTEX</i>	<i>TPH</i>	<i>Chloride</i>	
<i>H253918</i>		<i>G</i>	<i>1</i>	<i>X</i>						<i>X</i>			<i>6.26.25</i>		<i>X</i>	<i>X</i>	<i>X</i>	
1	<i>BH25-01200'</i>																	
2	<i>BH25-01201'</i>																	
3	<i>BH25-02200'</i>																	
4	<i>BH25-02201'</i>																	
5	<i>BH25-03200'</i>																	
6	<i>BH25-03201'</i>																	
7	<i>BH25-03202'R</i>																	
8	<i>BH25-04200'</i>																	
9	<i>BH25-05200'</i>																	
10	<i>BH25-06200'</i>																	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Riley Arnold</i>	Date: <i>4/30/25</i>	Received By: <i>S Rodriguez</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:	Date: <i>4/30/25</i>	Received By:	All Results are emailed. Please provide Email address: <i>Chensley@VertexResource.com</i>	
Delivered By: (Circle One)	Observed Temp. °C <i>14</i>	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <i>SK</i>	REMARKS: <i>Jars are Labeled "B2525-xx" Please label as "BH25-xx" as they are on COL</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>17</i>		Turnaround Time: Standard <input type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
FORM-000 R 3.0 02/12/23			Thermometer ID #140 Correction Factor +0.3°C	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 18, 2025

CHAD HENSLEY  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: PLU BIG SINKS 25 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/12/25 12:40.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 0' (H254959-01)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27	
Toluene*		<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79	
Ethylbenzene*		<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04	
Total Xylenes*		<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14	
Total BTEX		<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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		14800	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962	
DRO >C10-C28*		47.6	10.0	08/13/2025	ND	189	94.4	200	0.866	
EXT DRO >C28-C36		23.9	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 1' (H254959-02)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	2400	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 2' (H254959-03)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1040	16.0	08/13/2025	ND	416	104	400	3.77		
TPH 8015M										

Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 3' (H254959-04)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1440	16.0	08/13/2025	ND	416	104	400	3.77		
TPH 8015M										

Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	10.1	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 4' (H254959-05)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1310	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 129 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 5' (H254959-06)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	960	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 6' (H254959-07)**

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	08/13/2025	ND	1.72	85.9	2.00	5.27		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	5.79		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.89	94.5	2.00	6.04		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.86	97.7	6.00	7.14		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	416	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 7' (H254959-08)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	19.5		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>240</b>	16.0	08/13/2025	ND	416	104	400	3.77		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 8' (H254959-09)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	19.5		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	08/13/2025	ND	416	104	400	3.77		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25 - 01 @ 9' (H254959-10)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2025	ND	1.89	94.4	2.00	19.5		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>320</b>	16.0	08/13/2025	ND	416	104	400	3.77		
<b>TPH 8015M</b>										
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

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.

A handwritten signature in black ink that reads "Celey D. Keene".

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**

Company Name: <i>Vertex Resource</i>		<b>BILL TO</b>		ANALYSIS REQUEST																																																																																				
Project Manager: <i>Chad Hensley</i>		P.O. #: <i>1081011001</i>																																																																																						
Address: <i>3101 Boyd drive</i>		Company: <i>Exxon Mobil</i>																																																																																						
City: <i>Carlsbad</i> State: <i>NM</i> Zip: <i>88220</i>		Attn: <i>Ashley McAfee</i>																																																																																						
Phone #: <i>575-200-6167</i> Fax #:		Address: <i>3104 E Greene St</i>																																																																																						
Project #: <i>25A-0 3510</i> Project Owner:		City: <i>Carlsbad</i>																																																																																						
Project Name: <i>PLU Big Sinks 25 Fed Battery</i>		State: <i>NM</i> Zip: <i>88220</i>																																																																																						
Project Location:		Phone #:																																																																																						
Sampler Name: <i>Riley Arnold</i>		Fax #:																																																																																						
<table border="1"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRESERV.</th> <th colspan="3">SAMPLING</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>ACID/BASE:</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td><i>H254959</i></td> <td></td> <td rowspan="10">G 1</td> <td rowspan="10">GROUNDWATER</td> <td rowspan="10">ICE / COOL ✓</td> <td rowspan="10">8.8.25</td> <td rowspan="10">9:30</td> <td>BTEX</td> </tr> <tr> <td>1</td> <td>TP25-01 @ 0'</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>2</td> <td>TP25-01 @ 1'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>TP25-01 @ 2'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>TP25-01 @ 3'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>TP25-01 @ 4'</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>TP25-01 @ 5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>TP25-01 @ 6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>TP25-01 @ 7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>TP25-01 @ 8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>TP25-01 @ 9</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								FOR LAB USE ONLY		# CONTAINERS	MATRIX	PRESERV.	SAMPLING			Lab I.D.	Sample I.D.	ACID/BASE:	DATE	TIME	<i>H254959</i>		G 1	GROUNDWATER	ICE / COOL ✓	8.8.25	9:30	BTEX	1	TP25-01 @ 0'	X	X	X	X	2	TP25-01 @ 1'					3	TP25-01 @ 2'					4	TP25-01 @ 3'					5	TP25-01 @ 4'					6	TP25-01 @ 5					7	TP25-01 @ 6					8	TP25-01 @ 7					9	TP25-01 @ 8					10	TP25-01 @ 9				
FOR LAB USE ONLY		# CONTAINERS	MATRIX	PRESERV.	SAMPLING																																																																																			
Lab I.D.	Sample I.D.				ACID/BASE:	DATE	TIME																																																																																	
<i>H254959</i>		G 1	GROUNDWATER	ICE / COOL ✓	8.8.25	9:30	BTEX																																																																																	
1	TP25-01 @ 0'						X	X	X	X																																																																														
2	TP25-01 @ 1'																																																																																							
3	TP25-01 @ 2'																																																																																							
4	TP25-01 @ 3'																																																																																							
5	TP25-01 @ 4'																																																																																							
6	TP25-01 @ 5																																																																																							
7	TP25-01 @ 6																																																																																							
8	TP25-01 @ 7																																																																																							
9	TP25-01 @ 8																																																																																							
10	TP25-01 @ 9																																																																																							
<p>PLEASE NOTE: THIS FORM IS FOR YOUR USE ONLY. IT IS NOT TO BE COPIED OR Duplicated.</p>																																																																																								

**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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Theresa</i>		Date: <u>8-12-25</u>	Received By: <i>Jessica Aldaberg</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: <u>1240</u>		All Results are emailed. Please provide Email address:
Relinquished By:		Date:	Received By:	<i>Chesley@vertexresource.com</i>
		Time:		REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>Sampler - UPS</u>		Observed Temp. °C <u>2.8</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <i>JO</i>
		Corrected Temp. °C <u>3.1</u>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
				Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C
				Thermometer ID #140 Correction Factor +0.3°C

† Cardinal cannot accept verbal changes. Please email changes to [celev.keene@cardinallabsnm.com](mailto:celev.keene@cardinallabsnm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 24, 2025

CHAD HENSLEY  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: PLU BIG SINKS 25 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/18/25 13:15.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	09/18/2025	Sampling Date:	09/16/2025
Reported:	09/24/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 08 @ 0.5' (H255842-01)**

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	09/20/2025	ND	1.94	96.8	2.00	1.15	
Toluene*		<0.050	0.050	09/20/2025	ND	2.04	102	2.00	0.779	
Ethylbenzene*		<0.050	0.050	09/20/2025	ND	2.04	102	2.00	0.146	
Total Xylenes*		<0.150	0.150	09/20/2025	ND	5.97	99.6	6.00	0.0908	
Total BTEX		<0.300	0.300	09/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		<16.0	16.0	09/19/2025	ND	448	112	400	3.64	

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	09/19/2025	ND	234	117	200	1.16	
DRO >C10-C28*		<10.0	10.0	09/19/2025	ND	225	112	200	2.04	
EXT DRO >C28-C36		<10.0	10.0	09/19/2025	ND					

Surrogate: 1-Chlorooctane 106 % 52.4-130

Surrogate: 1-Chlorooctadecane 102 % 39.9-141

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	09/18/2025	Sampling Date:	09/16/2025
Reported:	09/24/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: BH 25 - 09 @ 0.5' (H255842-02)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/20/2025	ND	1.94	96.8	2.00	1.15		
Toluene*	<0.050	0.050	09/20/2025	ND	2.04	102	2.00	0.779		
Ethylbenzene*	<0.050	0.050	09/20/2025	ND	2.04	102	2.00	0.146		
Total Xylenes*	<0.150	0.150	09/20/2025	ND	5.97	99.6	6.00	0.0908		
Total BTEX	<0.300	0.300	09/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: KH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/19/2025	ND	448	112	400	3.64		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/19/2025	ND	234	117	200	1.16		
DRO >C10-C28*	<10.0	10.0	09/19/2025	ND	225	112	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	09/19/2025	ND						

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.9 % 39.9-141

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### Notes and Definitions

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

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.

A handwritten signature in black ink that reads "Celey D. Keene".

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

Company Name: <i>Vestex Resource</i> Project Manager: <i>Chad Hensley</i> Address: <i>3101 Boyd drive</i> City: <i>Carlsbad</i> Phone #: <i></i> Project #: <i>25A-03510</i> Project Owner: <i></i> Project Name: <i>PLU Big Sinks 25 Fed Battery</i> Project Location: <i></i> Sampler Name: <i>Riley Arnold</i>		<b>BILL TO</b> P.O. #: <i></i> Company: <i>ExxonMobil</i> Attn: <i>Ashley McAfee</i> Address: <i>3104 E Greene St</i> City: <i>Carlsbad</i> State: <i>NM</i> Zip: <i>88220</i> Phone #: <i></i> Fax #: <i></i>		<b>ANALYSIS REQUEST</b> <i>BTEX</i> <i>TPH</i> <i>chloride</i>																																																										
<b>FOR LAB USE ONLY</b>  <b>Lab I.D.</b> <b>Sample I.D.</b>  <i>Hass843</i> <i>1 BH25-08 @ 0.5'</i> <i>2 BH25-09 @ 0.5'</i>		<table border="1"> <thead> <tr> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER:</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>9.16.25</td> <td>11:50</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>G</td> <td>1</td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>9.16.25</td> <td>11:58</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>												(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING		DATE	TIME	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER:	G	1			X						X	9.16.25	11:50	X	X	X	G	1			X						X	9.16.25	11:58	X	X	X
(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING		DATE	TIME																																																							
				GROUNDWATER	WASTEWATER			SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER:																																																
G	1			X						X	9.16.25	11:50	X	X	X																																															
G	1			X						X	9.16.25	11:58	X	X	X																																															

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Riley Arnold* Received By: *Chad Hensley* Verbal Result:  Yes  No Add'l Phone #:   
 Relinquished By:  Received By:  All Results are emailed. Please provide Email address: *chensley@vestexresource.com*

Delivered By: (Circle One)	Observed Temp. °C <i>28</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	Received By: <i>Chad Hensley</i>	REMARKS: <i></i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>31</i>	Initials: <i>JO</i>	Turnaround Time: <i>Standard</i>	Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
			Thermometer ID #140	Thermometer ID #140 Correction Factor <i>-0.6°C</i> <i>+0.3°C</i>



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 21, 2025

CHAD HENSLEY  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: PLU BIG SINKS 25 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/17/25 12:42.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	11/17/2025	Sampling Date:	11/13/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

**Sample ID: TP25-02 @ 4' (H257217-01)**

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	11/19/2025	ND	2.17	109	2.00	0.493		
Toluene*	<0.050	0.050	11/19/2025	ND	2.12	106	2.00	0.821		
Ethylbenzene*	<0.050	0.050	11/19/2025	ND	2.04	102	2.00	1.50		
Total Xylenes*	<0.150	0.150	11/19/2025	ND	6.18	103	6.00	1.43		
Total BTEX	<0.300	0.300	11/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/18/2025	ND	448	112	400	3.64		

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	11/18/2025	ND	183	91.4	200	3.09		
DRO >C10-C28*	<10.0	10.0	11/18/2025	ND	201	100	200	3.03		
EXT DRO >C28-C36	<10.0	10.0	11/18/2025	ND						

Surrogate: 1-Chlorooctane 85.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.8 % 39.9-141

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### 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

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.

A handwritten signature in black ink that reads "Celey D. Keene".

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

**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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Philly弧菌</i>	Date: <u>11-17-25</u>	Received By: <i>Juliana Oldakovic</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <u>chensley@vestexresource.com</u>
Relinquished By:	Time: <u>1242</u>	Received By:	REMARKS: <u>GFLM:48605000</u>
	Date: <u></u>	Time: <u></u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>-0.1</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <u>✓</u>
	Corrected Temp. °C <u>0.2</u>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Thermometer ID #140 Correction Factor <u>-0.6°C</u> +0.3°C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabslm.com](mailto:celey.keene@cardinallabslm.com)



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 12, 2025

CHAD HENSLEY  
VERTEX RESOURCE  
3101 BOYD DRIVE  
CARLSBAD, NM 88220

RE: PLU BIG SINKS 25 FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/08/25 12:13.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	12/08/2025	Sampling Date:	12/05/2025
Reported:	12/12/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH25 - 10 @ 0-6" (H257600-01)**

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	12/09/2025	ND	1.75	87.6	2.00	0.958	
Toluene*		<0.050	0.050	12/09/2025	ND	1.83	91.6	2.00	2.50	
Ethylbenzene*		<0.050	0.050	12/09/2025	ND	1.92	96.2	2.00	5.41	
Total Xylenes*		<0.150	0.150	12/09/2025	ND	5.86	97.6	6.00	6.94	
Total BTEX		<0.300	0.300	12/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		192	16.0	12/08/2025	ND	448	112	400	3.64	

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	12/09/2025	ND	206	103	200	6.77	
DRO >C10-C28*		<10.0	10.0	12/09/2025	ND	227	114	200	6.52	
EXT DRO >C28-C36		<10.0	10.0	12/09/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.2 % 39.9-141

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

VERTEX RESOURCE  
 CHAD HENSLEY  
 3101 BOYD DRIVE  
 CARLSBAD NM, 88220  
 Fax To: NA

Received:	12/08/2025	Sampling Date:	12/05/2025
Reported:	12/12/2025	Sampling Type:	Soil
Project Name:	PLU BIG SINKS 25 FED BATTERY	Sampling Condition:	Cool & Intact
Project Number:	25A - 03510	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

**Sample ID: BH25 - 11 @ 0-6" (H257600-02)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: JH</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/09/2025	ND	1.75	87.6	2.00	0.958		
Toluene*	<0.050	0.050	12/09/2025	ND	1.83	91.6	2.00	2.50		
Ethylbenzene*	<0.050	0.050	12/09/2025	ND	1.92	96.2	2.00	5.41		
Total Xylenes*	<0.150	0.150	12/09/2025	ND	5.86	97.6	6.00	6.94		
Total BTEX	<0.300	0.300	12/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 70.4-141

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: HM</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	12/08/2025	ND	448	112	400	3.64		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/09/2025	ND	206	103	200	6.77		
DRO >C10-C28*	<10.0	10.0	12/09/2025	ND	227	114	200	6.52		
EXT DRO >C28-C36	<10.0	10.0	12/09/2025	ND						

Surrogate: 1-Chlorooctane 77.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.3 % 39.9-141

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



---

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

### 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

---

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.

A handwritten signature in black ink that reads "Celey D. Keene".

---

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**

**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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Charley Arnould</i>		Date: <u>12-8-25</u>	Received By: <i>Shod Riggs</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add to Note: _____
		Time: <u>1213</u>		All Results are emailed. Please provide Email address: <i>charley@vertexresource.com</i>
Relinquished By:		Date:	Received By:	<i>Ronald W. Arnould</i> vertexresource.co
		Time:		REMARKS: <i>GFLM:48605000</i>
Delivered By: (Circle One)	Observed Temp. °C <u>22</u>	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: <i>SL</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>22</u>	Thermometer ID #140 Correction Factor -0.6°C	<u>10.3</u>	

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>

QUESTIONS

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

Action 535744

**QUESTIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  535744
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2517135924
Incident Name	NAPP2517135924 PLU BIG SINKS 25 FEDERAL BATTERY @ FAPP2123047138
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2123047138] BIG SINKS 25 1

**Location of Release Source**

*Please answer all the questions in this group.*

Site Name	PLU BIG SINKS 25 FEDERAL BATTERY
Date Release Discovered	06/15/2025
Surface Owner	State

**Incident Details**

*Please answer all the questions in this group.*

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

**Nature and Volume of Release**

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

Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion   Pump   Produced Water   Released: 33 BBL   Recovered: 30 BBL   Lost: 3 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>30 bbls of produced water were released in containment, and 3 bbls of water were released on a permeable surface. 30 bbls of produced water were recovered from the lined containment. 3 bbls of produced water were not recovered from permeable surface.</i>

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 535744

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  535744
	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)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<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: NMEnvNotifications@exxonmobil.com Date: 12/17/2025
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

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>

QUESTIONS, Page 3

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

Action 535744

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  535744
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
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	Between 1 and 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 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
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
<b>Soil Contamination Sampling:</b> (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)	10977
GRO+DRO (EPA SW-846 Method 8015M)	9777
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	06/26/2025
On what date will (or did) the final sampling or liner inspection occur	08/18/2025
On what date will (or was) the remediation complete(d)	08/18/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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>

QUESTIONS, Page 4

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

Action 535744

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 535744
	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.)	<i>Not answered.</i>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Yes</i>
Other Non-listed Remedial Process. Please specify	no excavation was conducted. a deferral for leaving impacted soils in place is requested.

*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: 12/17/2025
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

*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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 535744

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  535744
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

**Deferral Requests Only**

*Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*

Requesting a deferral of the remediation closure due date with the approval of this submission	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	tank battery and associated infrastructure would need to be decommissioned and removed for excavation to occur
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4824
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	536

*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.*

Enter the facility ID (f#) on which this deferral should be granted	fAPP2123047138 BIG SINKS 25 1
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

*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: 12/17/2025
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 535744

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  535744
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

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

<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	No

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**

CONDITIONS

Action 535744

**CONDITIONS**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 535744
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of BH25-03 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	12/30/2025