



June 10, 2026

**New Mexico Oil Conservation Division**

1220 South St. Francis Street  
Santa Fe, New Mexico 87505

**Re: Closure Request  
PLU 411  
Incident Number nAPP2525531138  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document the findings of a liner integrity inspection and delineation activities completed at the PLU 411 (Site) following the release of produced water within a steel-walled lined containment housing storage tanks. Based on the liner integrity inspection and delineation activities, XTO is submitting this *Closure Request*, describing the inspection results and requesting closure for Incident Number nAPP2525531138.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The release was reported to the New Mexico Oil Conservation Division (NMOCD) in Unit B, Section 28, Township 24 South, Range 31 East in Eddy County, New Mexico (32.19265<sup>o</sup>, -103.77972<sup>o</sup>) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 13, 2025, equipment failure of a transfer pump seal resulted in the release of 7 barrels (bbls) of produced water into a steel-walled lined containment measuring approximately 6,864 square feet housing storage tanks. A vacuum truck was dispatched to the Site to recover free-standing fluid, and all released fluid was recovered. The pump was repaired and returned to service. XTO reported the release to the NMOCD via a Notification of Release (NOR) and an Initial C-141 Application (C-141) on September 12, 2025. The release was assigned Incident Number nAPP2525531138.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On August 1, 2023, a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE) as C-4760 was drilled approximately 217 feet southwest of the Site utilizing air rotary drilling methods. The soil boring was drilled to a total depth of 108 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to

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allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 108 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log, along with the Plugging Record are included in Appendix A.

A permitted NMOSE well C-2021, located approximately 423 feet northwest of the Site, without known depth to groundwater, was previously ground surveyed in December 2022 by Ensolum personnel and was confirmed to not exist in the location presented. A 1,000-foot radial survey was conducted around the documented at 32.193710, -103.780560, as part of a Site assessment and characterization for a previous release, Incident Number nAPP2219646774 to confirm its presence or absence. The documented position of the well is referenced in Figure 1.

The closest continuously flowing or significant watercourse is an intermittently flooded riverine located approximately 16,098 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH) - gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 1,000 mg/kg
- Chloride: 20,000 mg/kg

## LINER INTEGRITY INSPECTION ACTIVITIES

The lined containment was cleaned of all debris, power washed and a 48-hour advance notice of the liner inspection was submitted to the NMOCD on February 11, 2026. On February 16, 2026, the lined containment was inspected by Ensolum personnel and was determined to contain five small tears within a 5-foot radius of each other on the liner floor along the northern edge of the containment. Delineation to determine the extent of the release was warranted. A site map of the lined containment is included in Figure 2. Photographic documentation of the inspection is included in Appendix B.

## DELINEATION SOIL SAMPLING ACTIVITIES

On February 23, 2026, Ensolum personnel were at the Site to conduct delineation activities. Four delineation soil samples (SS01 through SS04) were collected around the lined containment from ground surface to confirm the release did not breach the containment walls. One delineation borehole (BH01) was advanced via hand auger to a terminal depth of 2 feet bgs at a central location relative to the tears in the liner and the spill extent within the release, based on initial release photos. The location of BH01 was selected based on its proximity to the point of release, concentration of observed liner tears, and safe accessibility of the area. Based on these factors, BH01 was considered the area most likely to be impacted by the release. As such, XTO believes the assessment results and associated data would provide a representative evaluation of the potential presence or absence of soil impacts. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated

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photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations of the soil samples from the borehole were logged on a lithologic soil sampling log, which is included in Appendix C. The delineation soil sample locations were mapped utilizing a handheld Trimble® Catalyst™ DA2 Global Positioning System (GPS) unit and are depicted on Figure 2. All liner tears were patched by Ensolum field personnel. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Labs (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA 300.0.

## NMOCD CORRESPONDENCE AND ADDITIONAL DELINEATION

On March 24, 2026, *Closure Request* for Incident Number nAPP2525531138 were submitted to the NMOCD. On April 17, 2026, the NMOCD denied the *Closure Request* with the following conditions:

*Remediation closure denied for the following reasons: 1) Each of the five compromised areas of the tank battery are required to be vertically delineated to below Table I Closure Criteria. 2) In addition, the location of each breach should be shown on Figure 2. 3) Photographic documentation of the delineation of each breach is required to be submitted with the final closure report. Submit an updated report to OCD no later than June 16, 2026.*

On April 29, 2026, Ensolum personnel returned to the site to perform the additional delineation requested by the NMOCD. Four additional boreholes (BH02 through BH05) were advanced via hand auger in the location of each liner breach, and discrete soil samples were collected at 0.5-, 1-, and 2-foot intervals. The four boreholes and liner breaches were mapped utilizing a handheld GPS and are depicted on Figure 2. All liner breaches were patched at the time of each borehole advancement. The soil samples were collected and field screened with the same methods as stated above, then transported and submitted to Cardinal for analysis of the same COCs as stated above. Photographic documentation of vertical delineation beneath BH02-BH05 is included in Appendix B.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COCs were in compliance with Site Closure Criteria and strictest Table I Closure Criteria, confirming the release remained within the steel walls of the lined containment. Delineation soil samples from boreholes BH01 through BH05 indicated all COCs were in compliance with Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are included in Appendix D.

## CLOSURE REQUEST

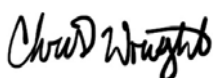
Liner integrity inspection and delineation activities were conducted at the Site to address the August 2025 release of produced water. Laboratory analytical results for the delineation soil samples, collected below the five liner tears, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. Ensolum patched all liner breaches following completion of delineation activities.

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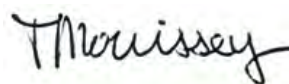
Delineation of potential impacts at this Site determined that no soil exceeding Site Closure Criteria was located below the lined containment and the release was fully contained within the walls of the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and the NMOSE water well C-02021 423 feet northwest of the Site is confirmed to not exist. No other sensitive receptors were identified near the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2525531138.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or [tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Christopher Wright  
Staff Geologist



Tacoma Morrissey  
Associate Principal

cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM







Appendices:

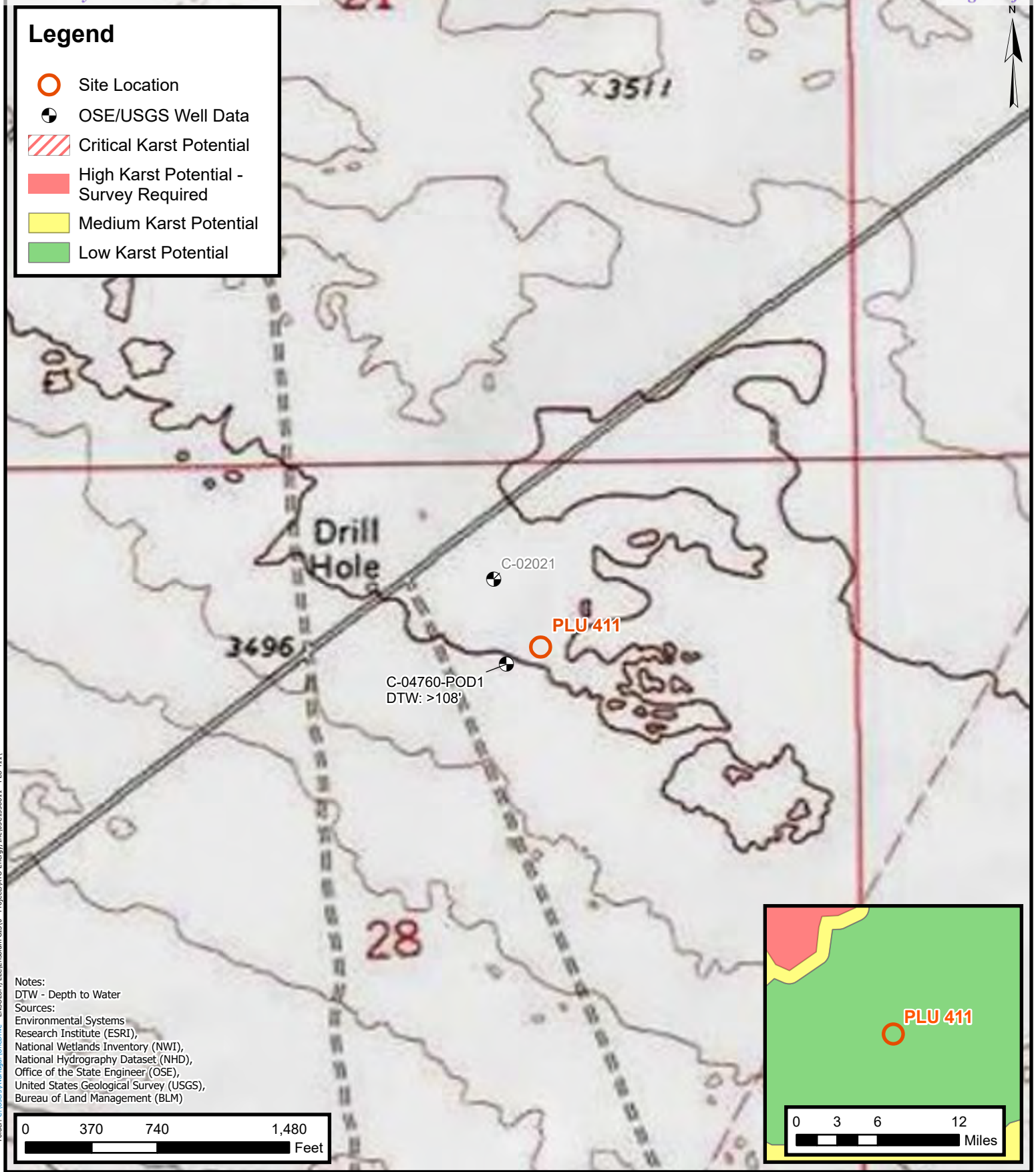
- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E Spill Volume Calculations



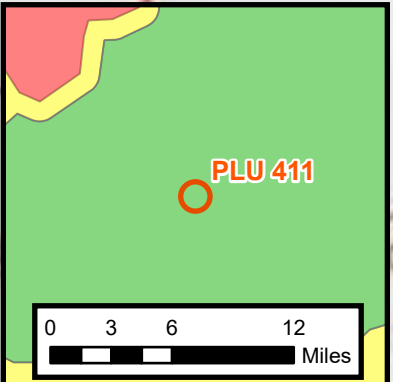
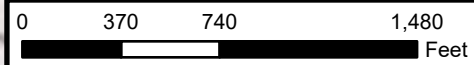
FIGURES

### Legend

-  Site Location
-  OSE/USGS Well Data
-  Critical Karst Potential
-  High Karst Potential - Survey Required
-  Medium Karst Potential
-  Low Karst Potential



Notes:  
 DTW - Depth to Water  
 Sources:  
 Environmental Systems  
 Research Institute (ESRI),  
 National Wetlands Inventory (NWI),  
 National Hydrography Dataset (NHD),  
 Office of the State Engineer (OSE),  
 United States Geological Survey (USGS),  
 Bureau of Land Management (BLM)



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## Site Receptor Map

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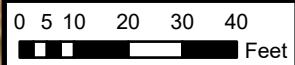
**FIGURE**  
**1**

### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Hole
- Oil and Gas Utility Line
- Electric Line
- Water Utility Line
- Lined Containment



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Delineation Soil Sample Locations

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FIGURE

2



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU 411 - Spill  
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
BH01	02/23/2026	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
BH01A	02/23/2026	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<9.94
BH01B	02/23/2026	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
BH02	04/29/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
BH02A	04/29/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,000
BH02B	04/29/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
BH03	04/29/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH03A	04/29/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH03B	04/29/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04	04/29/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04A	04/29/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH04B	04/29/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH05	04/29/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH05A	04/29/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH05B	04/29/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS01	02/23/2026	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	19.2
SS02	02/23/2026	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	18.5
SS03	02/23/2026	0.5	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	12.7
SS04	02/23/2026	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	79.5

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO. n/a		OSE FILE NO(S) C-4760	
	WELL OWNER NAME(S) XTO Energy, Inc.				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 3401 E, Greene Street				CITY Carlsbad	STATE ZIP NM 88220
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 11	SECONDS 32.60	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	46	49.24	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit B, Section 28, Township 24 South, Range 31 East						

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1188	NAME OF LICENSED DRILLER Scott Scarborough			NAME OF WELL DRILLING COMPANY Scarborough Drilling Inc.			
	DRILLING STARTED 8/1/2023	DRILLING ENDED 8/1/2023	DEPTH OF COMPLETED WELL (FT) Temp casing only	BORE HOLE DEPTH (FT) 108	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	108	6	Temporary SCH 40 PVC	-	2	-	-

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/19)			
FILE NO.	C-4760	POD NO.	1	TRN NO.	749166
LOCATION	24S.31E.28	412	WELL TAG ID NO.	NA	PAGE 1 OF 2





# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: C-04760 POD 1  
Well owner: XTO Energy Inc Phone No.: (575) 988-2390  
Mailing address: 3401 E. Greene Street  
City: Carlsbad State: New Mexico Zip code: 88220

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Scarborough Drilling Inc
- 2) New Mexico Well Driller License No.: WD-1188 Expiration Date: 3/31/2024
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Scott Scarborough
- 4) Date well plugging began: 8/4/2023 Date well plugging concluded: 8/4/2023
- 5) GPS Well Location: Latitude: 32 deg, 11 min, 32.60 sec  
Longitude: 103 deg, 46 min, 49.24 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 108 ft below ground level (bgl),  
by the following manner: Oil/water interface probe
- 7) Static water level measured at initiation of plugging: N/A ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7/10/2023
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

DSE DII ROSWELL NM  
2 APR '25 PM3:08

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> (“casing perforated first”, “open-annular space also plugged”, etc )
0-10'	Hydrated Bentonite	Approx. 26 gallons	26.11 gallons	Boring	
10'-108'	Drill Cuttings	Approx. 256 gallons	255.9 gallons	Boring	

MULTIPLY	BY	AND OBTAIN
cubic feet x 7.4805	=	gallons
cubic yards x 201.97	=	gallons

**III. SIGNATURE:**

I, Scott Scarborough, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

*Scott Scarborough*

\_\_\_\_\_  
Signature of Well Driller

2/25/2025

Date

OSE DII ROSWELL NM  
2 APR '25 PM 3:08



## APPENDIX B

### Photographic Log

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## Photographic Log

XTO Energy, Inc

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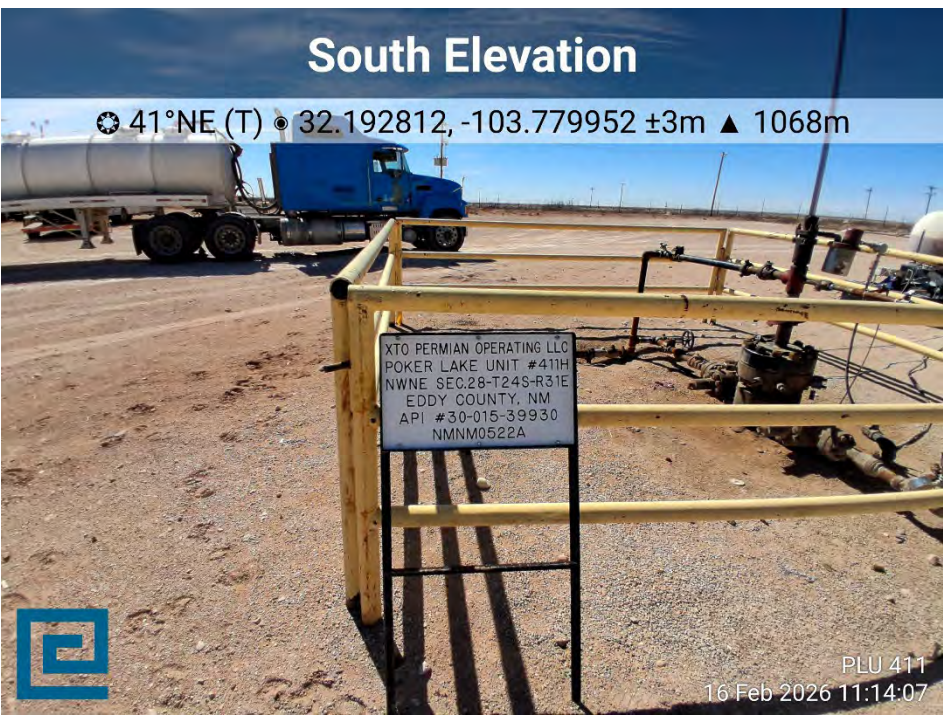

<p><u>Photograph</u> 1</p>	<p><u>Date</u> 8/14/2025</p>	
<p><u>Description</u> Initial release in containment</p>		
<p><u>View</u> North</p>		
<p><u>Photograph</u> 2</p>	<p><u>Date</u> 8/14/2025</p>	
<p><u>Description</u> Initial release in containment</p>		
<p><u>View</u> North</p>		



# ENSOLUM

## Photographic Log

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<p><u>Photograph</u> 3</p>	<p><u>Date</u> 2/16/2026</p>	<p style="text-align: center;"><b>South Elevation</b></p> <p style="text-align: center;">☉ 41°NE (T) ☉ 32.192812, -103.779952 ±3m ▲ 1068m</p>  <p style="text-align: right;">PLU 411 16 Feb 2026 11:14:07</p>
<p><u>Description</u> Well information</p>		
<p><u>View</u> Northwest</p>		
<p><u>Photograph</u> 4</p>	<p><u>Date</u> 2/16/2026</p>	<p style="text-align: center;"><b>East Elevation</b></p> <p style="text-align: center;">☉ 257°SW (T) ☉ 32.192811, -103.779958 ±4m ▲ 1068m</p>  <p style="text-align: right;">PLU 411 16 Feb 2026 13:34:39</p>
<p><u>Description</u> Inspection activities</p>		
<p><u>View</u> Northwest</p>		



## Photographic Log

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<p><u>Photograph</u> 5</p>	<p><u>Date</u> 2/16/2026</p>	
<p><u>Description</u> Inspection activities</p>		
<p><u>View</u> West</p>		
<p><u>Photograph</u> 6</p>	<p><u>Date</u> 2/16/2026</p>	
<p><u>Description</u> Inspection activities</p>		
<p><u>View</u> West</p>		



## Photographic Log

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<p><u>Photograph</u> 7</p>	<p><u>Date</u> 2/16/2026</p>	
<p><u>Description</u> Hole discovered during inspection activities, BH04</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 8</p>	<p><u>Date</u> 8/20/2025</p>	
<p><u>Description</u> Hole discovered during inspection activities, BH01 and BH05</p>		
<p><u>View</u> West</p>		



## Photographic Log

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<p><u>Photograph</u> 9</p>	<p><u>Date</u> 2/16/2026</p>	
<p><u>Description/</u> Hole discovered during inspection activities, BH03</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 10</p>	<p><u>Date</u> 2/23/2026</p>	
<p><u>Description</u> Delineation activities, BH01</p>		
<p><u>View</u> Northeast</p>		





## Photographic Log

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<p><u>Photograph</u> 11</p>	<p><u>Date</u> 2/23/2026</p>	 <p>2/23/26 13:28 32.1926559 -103.77990091 114° SE</p>
<p><u>Description</u> Delineation activities, SS02</p>		
<p><u>View</u> Southeast</p>		
<p><u>Photograph</u> 12</p>	<p><u>Date</u> 2/23/2026</p>	 <p>2/23/26 13:29 32.19256964 -103.77980926 330° NW</p>
<p><u>Description</u> Delineation activities, SS03</p>		
<p><u>View</u> North</p>		







## Photographic Log

XTO Energy, Inc

PLU 411

nAPP2525531138

<p><u>Photograph</u> 13</p>	<p><u>Date</u> 2/23/2026</p>	
<p><u>Description</u> Patched discovered hole</p>		
<p><u>View</u> East</p>		<p>2/23/26 14:17 32.19279159 -103.77980154 164° S</p>
<p><u>Photograph</u> 14</p>	<p><u>Date</u> 2/23/2026</p>	
<p><u>Description</u> Patched holes, BH01 and BH05</p>		
<p><u>View</u> North</p>		<p>2/23/26 14:17 32.19274514 -103.77980033 9° N</p>



## Photographic Log

XTO Energy, Inc

PLU 411

nAPP2525531138

<p><u>Photograph</u> 15</p>	<p><u>Date</u> 4/29/2026</p>	<p>BH02 (2)</p> <p>PLU 411 29 Apr 2026 9:52:35 AM</p>
<p><u>Description</u> Vertical delineation, BH02</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 16</p>	<p><u>Date</u> 4/29/2026</p>	<p>BH03 (2)</p> <p>PLU 411 29 Apr 2026 10:44:23 AM</p>
<p><u>Description</u> Vertical delineation, BH03</p>		
<p><u>View</u> Northeast</p>		



## Photographic Log

XTO Energy, Inc

PLU 411

nAPP2525531138

<p><u>Photograph</u> 17</p>	<p><u>Date</u> 4/29/2026</p>	
<p><u>Description</u> Vertical delineation, BH04</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 18</p>	<p><u>Date</u> 4/29/2026</p>	
<p><u>Description</u> Vertical delineation, BH05</p>		
<p><u>View</u> West</p>		



## Photographic Log

XTO Energy, Inc

PLU 411

nAPP2525531138

<p><u>Photograph</u> 19</p>	<p><u>Date</u> 4/29/2026</p>	
<p><u>Description</u> Patched liner, BH02</p>		
<p><u>View</u> Northeast-East</p>		
<p><u>Photograph</u> 20</p>	<p><u>Date</u> 4/29/2026</p>	
<p><u>Description</u> Patched liner, BH03</p>		
<p><u>View</u> North</p>		



## Photographic Log

XTO Energy, Inc

PLU 411

nAPP2525531138


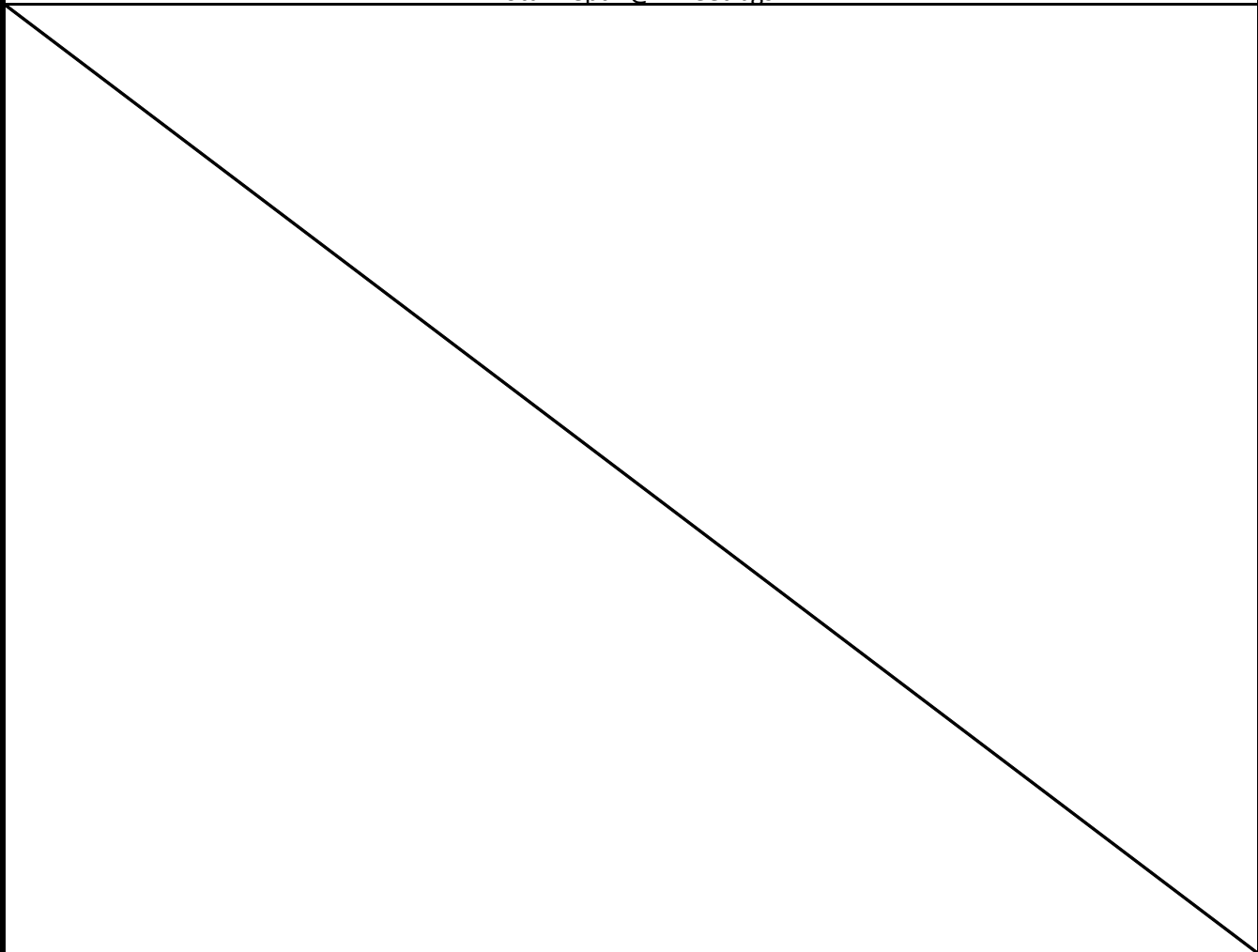
<p><u>Photograph</u> 21</p>	<p><u>Date</u> 4/29/2026</p>	<p>BH04 (Patched) <span style="float: right;">PLU 411 29 Apr 2026 1:08:28 PM</span></p>
<p><u>Description</u> Patched liner, BH04</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 22</p>	<p><u>Date</u> 4/29/2026</p>	<p>BH05 (Patched) <span style="float: right;">PLU 411 29 Apr 2026 1:08:43 PM</span></p>
<p><u>Description</u> Patched liner, BH05</p>		
<p><u>View</u> West</p>		


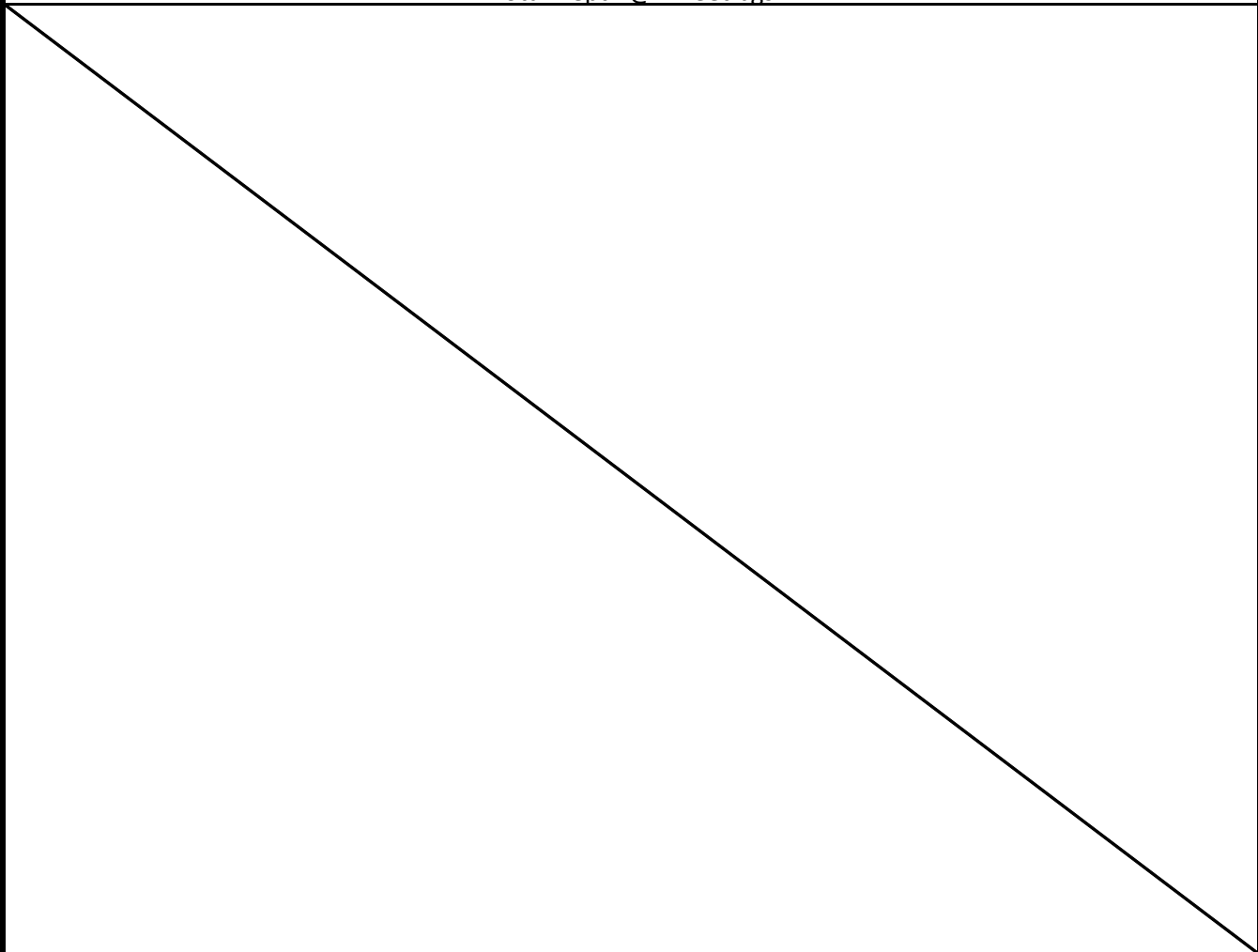



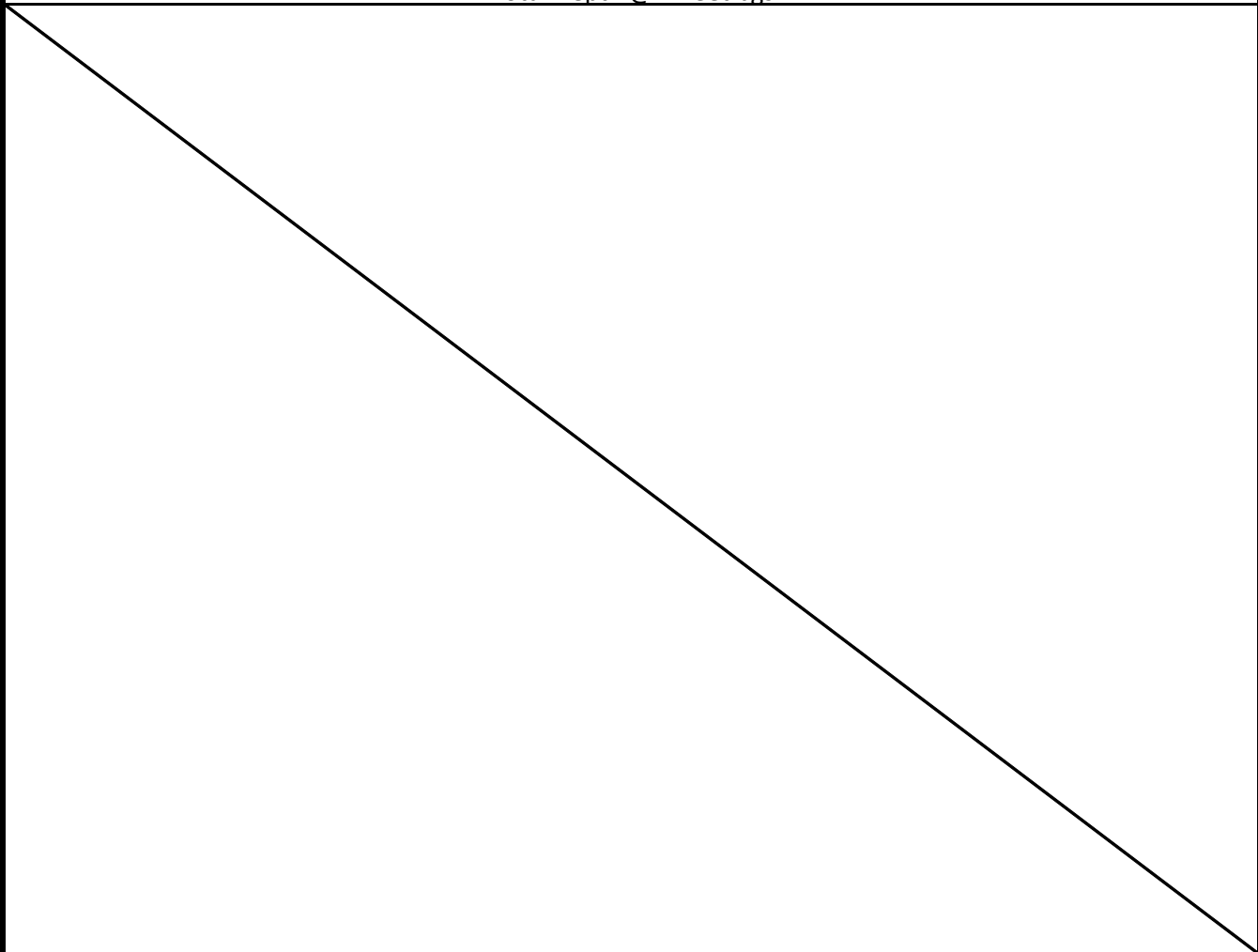
## APPENDIX C


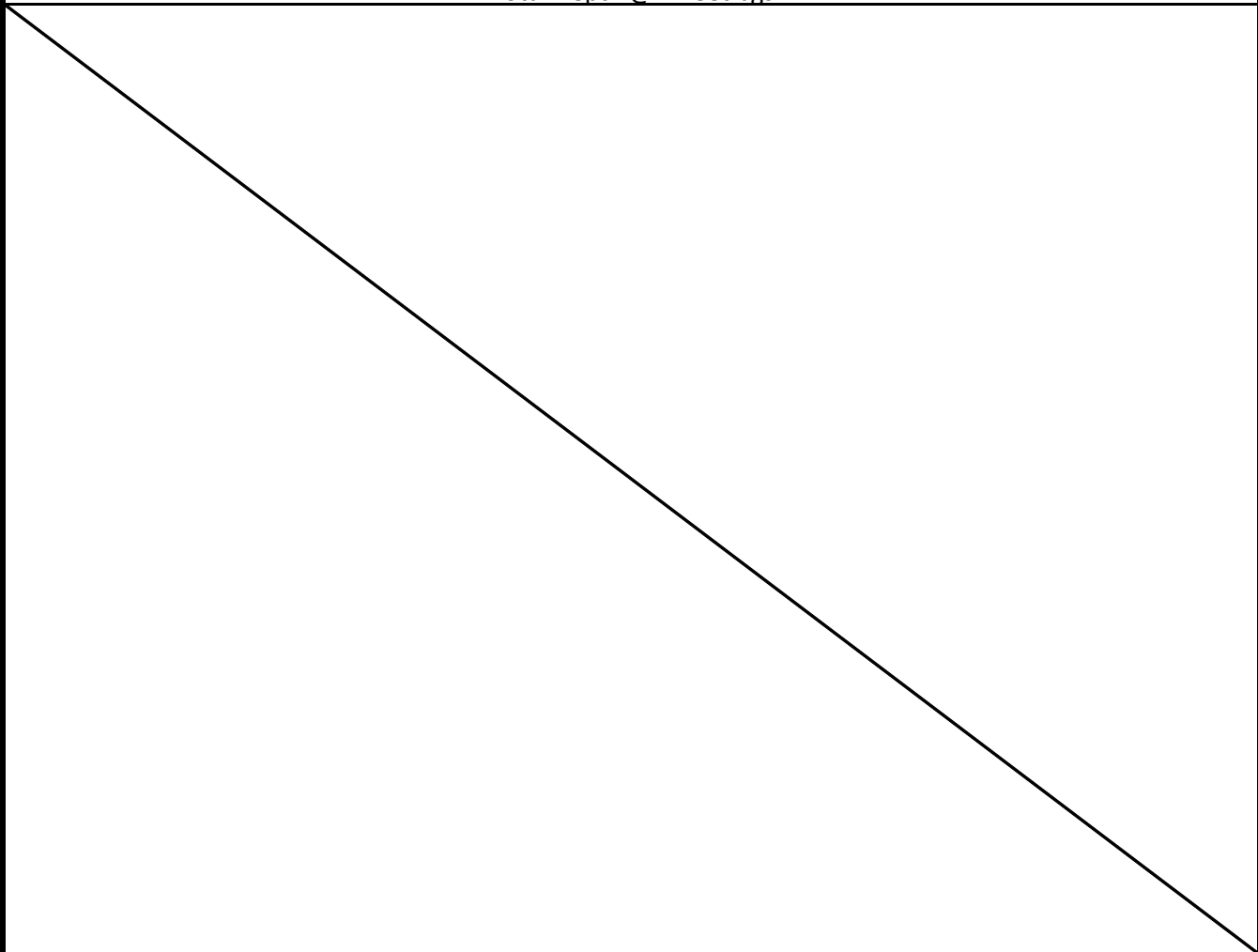
### Lithologic Soil Sampling Logs


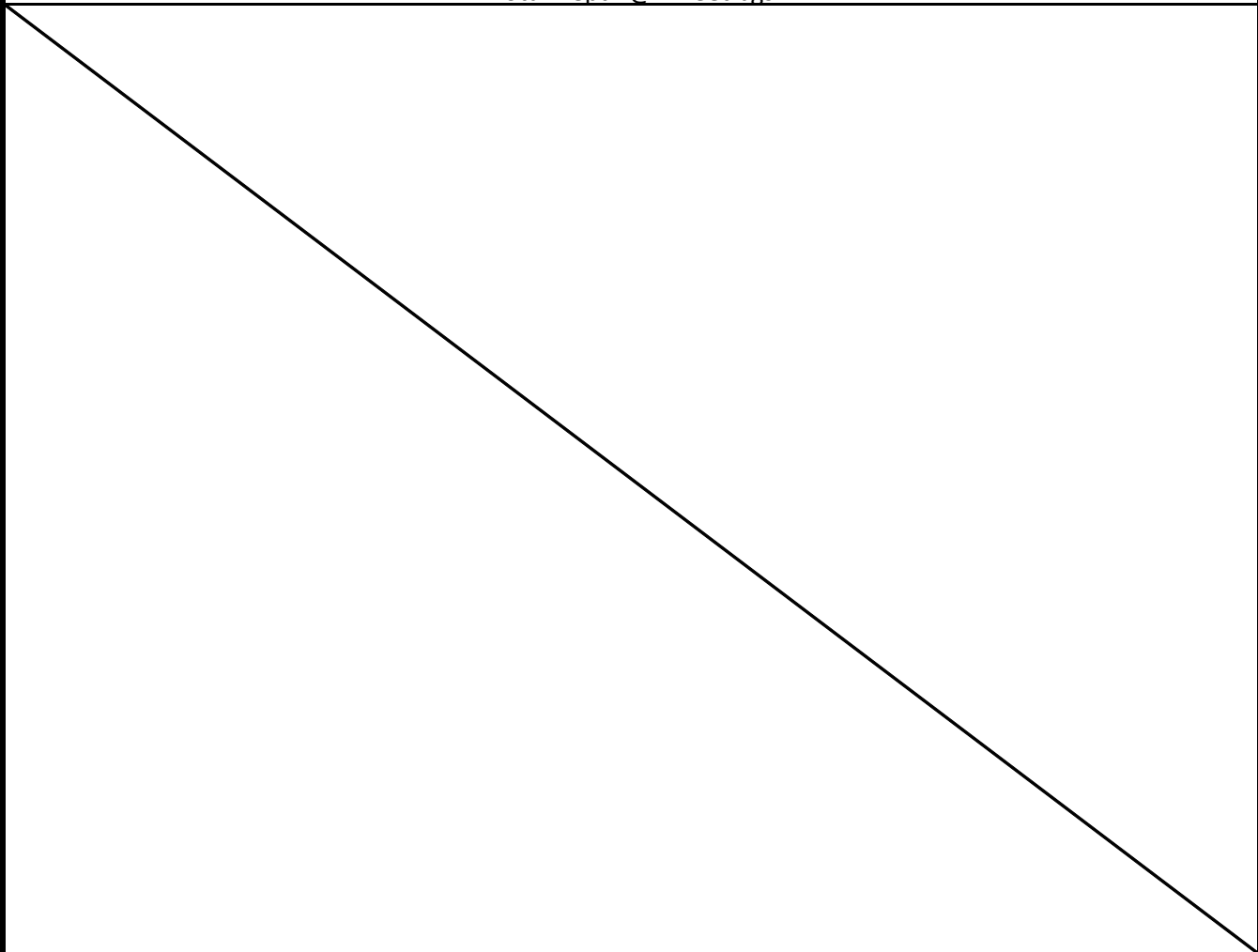
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					Sample Name: BH01		Date: 2/23/2026	
					Site Name: PLU 411			
					Incident Number: nAPP2525531138			
					Job Number: 03C1558811			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Evan Roe		Method: Hand Auger	
Coordinates: 32.192765, -103.779807					Hole Diameter: 3"		Total Depth: 2ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<179	0	N	BH01	0.5	0	CCHE	0 - 1': Caliche. Light brown sands and gravels.
D	<179	0.6	N	BH01A	1	1		
D	<179	0.2	N	BH01B	2	2	SC	1 - 2': Brown fine-grained sand with clay and few gravels. Cohesive, medium plasticity.
Total Depth @ 2 Feet bgs								
								

					Sample Name: BH02		Date: 4/29/2026	
					Site Name: PLU 411			
					Incident Number: nAPP2525531138			
					Job Number: 03C1558811			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Mario Sarkis		Method: Hand Auger	
Coordinates: 32.192760, -103.779871					Hole Diameter: 3"		Total Depth: 2ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,000	0.4	N	BH02	0.5	0	CCHE	0 - 1': Light brown caliched, coarse to fine grained sands with few gravels (2-3cm). Noncohesive.
D	3,847	0.8	N	BH02A	1	1		
D	448	0.2	N	BH02B	2	2	SC	1 - 2': Red brown fine-grained sand with clay and few gravels. Cohesive, medium plasticity.
Total Depth @ 2 Feet bgs								
								

					Sample Name: BH03		Date: 4/29/2026	
					Site Name: PLU 411			
					Incident Number: nAPP2525531138			
					Job Number: 03C1558811			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Mario Sarkis		Method: Hand Auger	
Coordinates: 32.192719, -103.779823					Hole Diameter: 3"		Total Depth: 2ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<156	0.3	N	BH03	0.5	0	CCHE	0 - 1': Light brown caliched, coarse to fine grained sands with few gravels (2-3cm). Noncohesive.
D	<156	0.2	N	BH03A	1	1		
D	<156	0.6	N	BH03B	2	2	SC	1 - 2': Red brown fine-grained sand with clay and few gravels. Cohesive, medium plasticity.
Total Depth @ 2 Feet bgs								
								

					Sample Name: BH04		Date: 4/29/2026	
					Site Name: PLU 411			
					Incident Number: nAPP2525531138			
					Job Number: 03C1558811			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Mario Sarkis		Method: Hand Auger	
Coordinates: 32.192769, -103.779766					Hole Diameter: 3"		Total Depth: 2ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<156	0.4	N	BH04	0.5	0	CCHE	0 - 1': Light brown caliched, coarse to fine grained sands with few gravels (2-3cm). Noncohesive.
D	<156	0.8	N	BH04A	1	1		
D	<156	0.4	N	BH04B	2	2	SC	1 - 2': Red brown fine-grained sand with clay and few gravels. Cohesive, medium plasticity.
Total Depth @ 2 Feet bgs								
								

							Sample Name: BH05		Date: 4/29/2026	
							Site Name: PLU 411			
							Incident Number: nAPP2525531138			
							Job Number: 03C1558811			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>							Logged By: Mario Sarkis		Method: Hand Auger	
Coordinates: 32.192763, -103.779821							Hole Diameter: 3"		Total Depth: 2ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A correction factor of 40% is included for chlorides.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	<156	0.0	N	BH02	0.5	0	CCHE	0 - 1': Light brown caliched, coarse to fine grained sands with few gravels (2-3cm). Noncohesive.		
D	<156	0.1	N	BH02A	1	1				
D	<156	0.5	N	BH02B	2	2	SC	1 - 2': Red brown fine-grained sand with clay and few gravels. Cohesive, medium plasticity.		
Total Depth @ 2 Feet bgs										
										



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeremy Reich  
 Ensolum  
 601 N. Marienfeld St.  
 Suite 400  
 Midland, Texas 79701  
 Generated 3/2/2026 11:38:05 AM

## JOB DESCRIPTION

PLU 411  
 03C1558811

## JOB NUMBER

890-9540-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
3/2/2026 11:38:05 AM

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

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Client: Ensolum  
Project/Site: PLU 411

Laboratory Job ID: 890-9540-1  
SDG: 03C1558811

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

# Case Narrative

Client: Ensolum  
Project: PLU 411

Job ID: 890-9540-1

**Job ID: 890-9540-1**

**Eurofins Carlsbad**

## Job Narrative 890-9540-1

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

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

### Receipt

The samples were received on 2/23/2026 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-9540-1), SS 02 (890-9540-2), SS 03 (890-9540-3), SS 04 (890-9540-4), BH 01 (890-9540-5), BH 01A (890-9540-6) and BH 01B (890-9540-7).

### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH 01B (890-9540-7). Evidence of matrix interferences is not obvious.

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

### Diesel Range Organics

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

### HPLC/IC

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

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### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 01**

**Lab Sample ID: 890-9540-1**

Date Collected: 02/23/26 12:00

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 16:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 16:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 16:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/25/26 12:42	02/27/26 16:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 16:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/25/26 12:42	02/27/26 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/25/26 12:42	02/27/26 16:51	1
1,4-Difluorobenzene (Surr)	123		70 - 130	02/25/26 12:42	02/27/26 16:51	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/27/26 16:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/01/26 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 11:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 11:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	02/24/26 08:17	03/01/26 11:12	1
o-Terphenyl	103		70 - 130	02/24/26 08:17	03/01/26 11:12	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		10.1	mg/Kg			02/27/26 00:38	1

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9540-2**

Date Collected: 02/23/26 12:04

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 17:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 17:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 17:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/25/26 12:42	02/27/26 17:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 17:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/25/26 12:42	02/27/26 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/25/26 12:42	02/27/26 17:12	1

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### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9540-2**

Date Collected: 02/23/26 12:04

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	02/25/26 12:42	02/27/26 17:12	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/27/26 17:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/26 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 11:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 11:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	02/24/26 08:17	03/01/26 11:27	1
o-Terphenyl	105		70 - 130	02/24/26 08:17	03/01/26 11:27	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		9.90	mg/Kg			02/27/26 00:54	1

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9540-3**

Date Collected: 02/23/26 12:30

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/25/26 12:42	02/27/26 17:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/25/26 12:42	02/27/26 17:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/25/26 12:42	02/27/26 17:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/25/26 12:42	02/27/26 17:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/25/26 12:42	02/27/26 17:32	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/25/26 12:42	02/27/26 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/25/26 12:42	02/27/26 17:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/25/26 12:42	02/27/26 17:32	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/27/26 17:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			03/01/26 11:42	1

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### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9540-3**

Date Collected: 02/23/26 12:30

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		02/24/26 08:17	03/01/26 11:42	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		02/24/26 08:17	03/01/26 11:42	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		02/24/26 08:17	03/01/26 11:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			02/24/26 08:17	03/01/26 11:42	1
o-Terphenyl	103		70 - 130			02/24/26 08:17	03/01/26 11:42	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		10.1	mg/Kg			02/27/26 01:00	1

**Client Sample ID: SS 04**

**Lab Sample ID: 890-9540-4**

Date Collected: 02/23/26 12:34

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/25/26 12:42	02/27/26 17:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			02/25/26 12:42	02/27/26 17:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/25/26 12:42	02/27/26 17:53	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/27/26 17:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/26 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 11:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 11:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/24/26 08:17	03/01/26 11:56	1
o-Terphenyl	104		70 - 130			02/24/26 08:17	03/01/26 11:56	1

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### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 04**

**Lab Sample ID: 890-9540-4**

Date Collected: 02/23/26 12:34  
Date Received: 02/23/26 15:35  
Sample Depth: 0.5

Matrix: Solid

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79.5		10.0	mg/Kg			02/27/26 01:17	1

**Client Sample ID: BH 01**

**Lab Sample ID: 890-9540-5**

Date Collected: 02/23/26 11:00  
Date Received: 02/23/26 15:35  
Sample Depth: 0.5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/25/26 12:42	02/27/26 21:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	110		70 - 130			02/25/26 12:42	02/27/26 21:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130			02/25/26 12:42	02/27/26 21:31	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/27/26 21:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/01/26 12:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 12:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 12:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/26 08:17	03/01/26 12:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	102		70 - 130			02/24/26 08:17	03/01/26 12:12	1
o-Terphenyl	106		70 - 130			02/24/26 08:17	03/01/26 12:12	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		9.92	mg/Kg			02/27/26 01:23	1

### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: BH 01A**

**Lab Sample ID: 890-9540-6**

Date Collected: 02/23/26 11:05

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 21:51	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 21:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 21:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/25/26 12:42	02/27/26 21:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/25/26 12:42	02/27/26 21:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/25/26 12:42	02/27/26 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	02/25/26 12:42	02/27/26 21:51	1
1,4-Difluorobenzene (Surr)	123		70 - 130	02/25/26 12:42	02/27/26 21:51	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/27/26 21:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/01/26 12:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 12:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 12:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/26 08:17	03/01/26 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/24/26 08:17	03/01/26 12:27	1
o-Terphenyl	102		70 - 130	02/24/26 08:17	03/01/26 12:27	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg/Kg			02/27/26 01:28	1

**Client Sample ID: BH 01B**

**Lab Sample ID: 890-9540-7**

Date Collected: 02/23/26 11:55

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 22:12	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 22:12	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 22:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/25/26 12:42	02/27/26 22:12	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/25/26 12:42	02/27/26 22:12	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/25/26 12:42	02/27/26 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	02/25/26 12:42	02/27/26 22:12	1

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### Client Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: BH 01B**

**Lab Sample ID: 890-9540-7**

Date Collected: 02/23/26 11:55

Matrix: Solid

Date Received: 02/23/26 15:35

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	121		70 - 130	02/25/26 12:42	02/27/26 22:12	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/27/26 22:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/01/26 12:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 12:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 12:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/24/26 08:17	03/01/26 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	02/24/26 08:17	03/01/26 12:57	1
o-Terphenyl	108		70 - 130	02/24/26 08:17	03/01/26 12:57	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			02/27/26 01:34	1

## Surrogate Summary

Client: Ensolum  
Project/Site: PLU 411Job ID: 890-9540-1  
SDG: 03C1558811

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-9540-1	SS 01	129	123
890-9540-1 MS	SS 01	123	100
890-9540-1 MSD	SS 01	121	100
890-9540-2	SS 02	111	105
890-9540-3	SS 03	121	103
890-9540-4	SS 04	116	106
890-9540-5	BH 01	110	106
890-9540-6	BH 01A	130	123
890-9540-7	BH 01B	134 S1+	121
LCS 880-132980/1-A	Lab Control Sample	102	99
LCSD 880-132980/2-A	Lab Control Sample Dup	96	99
MB 880-132980/5-A	Method Blank	111	94

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-68689-A-35-B MS	Matrix Spike	104	110
880-68689-A-35-C MSD	Matrix Spike Duplicate	105	111
890-9540-1	SS 01	96	103
890-9540-2	SS 02	98	105
890-9540-3	SS 03	99	103
890-9540-4	SS 04	98	104
890-9540-5	BH 01	102	106
890-9540-6	BH 01A	94	102
890-9540-7	BH 01B	99	108
LCS 880-132800/2-A	Lab Control Sample	85	87
LCSD 880-132800/3-A	Lab Control Sample Dup	84	85
MB 880-132800/1-A	Method Blank	127	123

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

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

Lab Sample ID: MB 880-132980/5-A  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 16:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 16:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 16:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/25/26 12:42	02/27/26 16:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/25/26 12:42	02/27/26 16:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/25/26 12:42	02/27/26 16:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/25/26 12:42	02/27/26 16:29	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/25/26 12:42	02/27/26 16:29	1

Lab Sample ID: LCS 880-132980/1-A  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07964		mg/Kg		80	70 - 130
Toluene	0.100	0.08399		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.09143		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1759		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09149		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-132980/2-A  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08322		mg/Kg		83	70 - 130	4	35
Toluene	0.100	0.08184		mg/Kg		82	70 - 130	3	35
Ethylbenzene	0.100	0.09650		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.09281		mg/Kg		93	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-9540-1 MS  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: SS 01  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.07509		mg/Kg		75	70 - 130
Toluene	<0.00202	U	0.100	0.07482		mg/Kg		75	70 - 130

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

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

Lab Sample ID: 890-9540-1 MS  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: SS 01  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1159		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2185		mg/Kg		109	70 - 130
o-Xylene	<0.00202	U	0.100	0.1105		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-9540-1 MSD  
Matrix: Solid  
Analysis Batch: 133181

Client Sample ID: SS 01  
Prep Type: Total/NA  
Prep Batch: 132980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.07930		mg/Kg		79	70 - 130	5	35
Toluene	<0.00202	U	0.100	0.07749		mg/Kg		77	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.100	0.1160		mg/Kg		116	70 - 130	0	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2250		mg/Kg		113	70 - 130	3	35
o-Xylene	<0.00202	U	0.100	0.1140		mg/Kg		114	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-132800/1-A  
Matrix: Solid  
Analysis Batch: 133371

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 132800

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/26 08:16	03/01/26 05:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/26 08:16	03/01/26 05:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/26 08:16	03/01/26 05:47	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	02/24/26 08:16	03/01/26 05:47	1
o-Terphenyl	123		70 - 130	02/24/26 08:16	03/01/26 05:47	1

Lab Sample ID: LCS 880-132800/2-A  
Matrix: Solid  
Analysis Batch: 133371

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 132800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

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

**Lab Sample ID: LCS 880-132800/2-A**  
**Matrix: Solid**  
**Analysis Batch: 133371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 132800**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	85		70 - 130
o-Terphenyl	87		70 - 130

**Lab Sample ID: LCSD 880-132800/3-A**  
**Matrix: Solid**  
**Analysis Batch: 133371**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 132800**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1087		mg/Kg		109	70 - 130	4		20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	0		20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	84		70 - 130
o-Terphenyl	85		70 - 130

**Lab Sample ID: 880-68689-A-35-B MS**  
**Matrix: Solid**  
**Analysis Batch: 133371**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 132800**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1122		mg/Kg		111	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	1072		mg/Kg		105	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	104		70 - 130
o-Terphenyl	110		70 - 130

**Lab Sample ID: 880-68689-A-35-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 133371**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 132800**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1146		mg/Kg		113	70 - 130	2		20
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	1110		mg/Kg		109	70 - 130	3		20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	105		70 - 130
o-Terphenyl	111		70 - 130

### QC Sample Results

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-132990/1-A  
Matrix: Solid  
Analysis Batch: 133077

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			02/26/26 23:02	1

Lab Sample ID: LCS 880-132990/2-A  
Matrix: Solid  
Analysis Batch: 133077

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	243.2		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-132990/3-A  
Matrix: Solid  
Analysis Batch: 133077

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.2		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-9540-1 MS  
Matrix: Solid  
Analysis Batch: 133077

Client Sample ID: SS 01  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.2		253	269.5		mg/Kg		99	90 - 110

Lab Sample ID: 890-9540-1 MSD  
Matrix: Solid  
Analysis Batch: 133077

Client Sample ID: SS 01  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.2		253	269.0		mg/Kg		99	90 - 110	0	20

## QC Association Summary

Client: Ensolum  
Project/Site: PLU 411Job ID: 890-9540-1  
SDG: 03C1558811

## GC VOA

## Prep Batch: 132980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	5035	
890-9540-2	SS 02	Total/NA	Solid	5035	
890-9540-3	SS 03	Total/NA	Solid	5035	
890-9540-4	SS 04	Total/NA	Solid	5035	
890-9540-5	BH 01	Total/NA	Solid	5035	
890-9540-6	BH 01A	Total/NA	Solid	5035	
890-9540-7	BH 01B	Total/NA	Solid	5035	
MB 880-132980/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-132980/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-132980/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9540-1 MS	SS 01	Total/NA	Solid	5035	
890-9540-1 MSD	SS 01	Total/NA	Solid	5035	

## Analysis Batch: 133181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	8021B	132980
890-9540-2	SS 02	Total/NA	Solid	8021B	132980
890-9540-3	SS 03	Total/NA	Solid	8021B	132980
890-9540-4	SS 04	Total/NA	Solid	8021B	132980
890-9540-5	BH 01	Total/NA	Solid	8021B	132980
890-9540-6	BH 01A	Total/NA	Solid	8021B	132980
890-9540-7	BH 01B	Total/NA	Solid	8021B	132980
MB 880-132980/5-A	Method Blank	Total/NA	Solid	8021B	132980
LCS 880-132980/1-A	Lab Control Sample	Total/NA	Solid	8021B	132980
LCS 880-132980/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	132980
890-9540-1 MS	SS 01	Total/NA	Solid	8021B	132980
890-9540-1 MSD	SS 01	Total/NA	Solid	8021B	132980

## Analysis Batch: 133338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	Total BTEX	
890-9540-2	SS 02	Total/NA	Solid	Total BTEX	
890-9540-3	SS 03	Total/NA	Solid	Total BTEX	
890-9540-4	SS 04	Total/NA	Solid	Total BTEX	
890-9540-5	BH 01	Total/NA	Solid	Total BTEX	
890-9540-6	BH 01A	Total/NA	Solid	Total BTEX	
890-9540-7	BH 01B	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 132800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	8015NM Prep	
890-9540-2	SS 02	Total/NA	Solid	8015NM Prep	
890-9540-3	SS 03	Total/NA	Solid	8015NM Prep	
890-9540-4	SS 04	Total/NA	Solid	8015NM Prep	
890-9540-5	BH 01	Total/NA	Solid	8015NM Prep	
890-9540-6	BH 01A	Total/NA	Solid	8015NM Prep	
890-9540-7	BH 01B	Total/NA	Solid	8015NM Prep	
MB 880-132800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-132800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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### QC Association Summary

Client: Ensolum  
 Project/Site: PLU 411

Job ID: 890-9540-1  
 SDG: 03C1558811

#### GC Semi VOA (Continued)

##### Prep Batch: 132800 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-132800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-68689-A-35-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-68689-A-35-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

##### Analysis Batch: 133371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	8015B NM	132800
890-9540-2	SS 02	Total/NA	Solid	8015B NM	132800
890-9540-3	SS 03	Total/NA	Solid	8015B NM	132800
890-9540-4	SS 04	Total/NA	Solid	8015B NM	132800
890-9540-5	BH 01	Total/NA	Solid	8015B NM	132800
890-9540-6	BH 01A	Total/NA	Solid	8015B NM	132800
890-9540-7	BH 01B	Total/NA	Solid	8015B NM	132800
MB 880-132800/1-A	Method Blank	Total/NA	Solid	8015B NM	132800
LCS 880-132800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	132800
LCSD 880-132800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	132800
880-68689-A-35-B MS	Matrix Spike	Total/NA	Solid	8015B NM	132800
880-68689-A-35-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	132800

##### Analysis Batch: 133435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Total/NA	Solid	8015 NM	
890-9540-2	SS 02	Total/NA	Solid	8015 NM	
890-9540-3	SS 03	Total/NA	Solid	8015 NM	
890-9540-4	SS 04	Total/NA	Solid	8015 NM	
890-9540-5	BH 01	Total/NA	Solid	8015 NM	
890-9540-6	BH 01A	Total/NA	Solid	8015 NM	
890-9540-7	BH 01B	Total/NA	Solid	8015 NM	

#### HPLC/IC

##### Leach Batch: 132990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Soluble	Solid	DI Leach	
890-9540-2	SS 02	Soluble	Solid	DI Leach	
890-9540-3	SS 03	Soluble	Solid	DI Leach	
890-9540-4	SS 04	Soluble	Solid	DI Leach	
890-9540-5	BH 01	Soluble	Solid	DI Leach	
890-9540-6	BH 01A	Soluble	Solid	DI Leach	
890-9540-7	BH 01B	Soluble	Solid	DI Leach	
MB 880-132990/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-132990/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-132990/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9540-1 MS	SS 01	Soluble	Solid	DI Leach	
890-9540-1 MSD	SS 01	Soluble	Solid	DI Leach	

##### Analysis Batch: 133077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-1	SS 01	Soluble	Solid	300.0	132990
890-9540-2	SS 02	Soluble	Solid	300.0	132990
890-9540-3	SS 03	Soluble	Solid	300.0	132990

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### QC Association Summary

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

#### HPLC/IC (Continued)

#### Analysis Batch: 133077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9540-4	SS 04	Soluble	Solid	300.0	132990
890-9540-5	BH 01	Soluble	Solid	300.0	132990
890-9540-6	BH 01A	Soluble	Solid	300.0	132990
890-9540-7	BH 01B	Soluble	Solid	300.0	132990
MB 880-132990/1-A	Method Blank	Soluble	Solid	300.0	132990
LCS 880-132990/2-A	Lab Control Sample	Soluble	Solid	300.0	132990
LCSD 880-132990/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	132990
890-9540-1 MS	SS 01	Soluble	Solid	300.0	132990
890-9540-1 MSD	SS 01	Soluble	Solid	300.0	132990

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### Lab Chronicle

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 01**

**Lab Sample ID: 890-9540-1**

Date Collected: 02/23/26 12:00

Matrix: Solid

Date Received: 02/23/26 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 16:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 16:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 11:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 11:12	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 00:38	CS	EET MID

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9540-2**

Date Collected: 02/23/26 12:04

Matrix: Solid

Date Received: 02/23/26 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 17:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 17:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 11:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 11:27	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 00:54	CS	EET MID

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9540-3**

Date Collected: 02/23/26 12:30

Matrix: Solid

Date Received: 02/23/26 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 17:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 17:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 11:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 11:42	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 01:00	CS	EET MID

**Client Sample ID: SS 04**

**Lab Sample ID: 890-9540-4**

Date Collected: 02/23/26 12:34

Matrix: Solid

Date Received: 02/23/26 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 17:53	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 17:53	AJ	EET MID

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### Lab Chronicle

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: SS 04**  
Date Collected: 02/23/26 12:34  
Date Received: 02/23/26 15:35

**Lab Sample ID: 890-9540-4**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			133435	03/01/26 11:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 11:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 01:17	CS	EET MID

**Client Sample ID: BH 01**  
Date Collected: 02/23/26 11:00  
Date Received: 02/23/26 15:35

**Lab Sample ID: 890-9540-5**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 21:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 21:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 12:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 12:12	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 01:23	CS	EET MID

**Client Sample ID: BH 01A**  
Date Collected: 02/23/26 11:05  
Date Received: 02/23/26 15:35

**Lab Sample ID: 890-9540-6**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 21:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 21:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 12:27	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 12:27	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 01:28	CS	EET MID

**Client Sample ID: BH 01B**  
Date Collected: 02/23/26 11:55  
Date Received: 02/23/26 15:35

**Lab Sample ID: 890-9540-7**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	132980	02/25/26 12:42	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133181	02/27/26 22:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			133338	02/27/26 22:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			133435	03/01/26 12:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	132800	02/24/26 08:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133371	03/01/26 12:57	AJ	EET MID

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### Lab Chronicle

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

**Client Sample ID: BH 01B**

**Lab Sample ID: 890-9540-7**

Date Collected: 02/23/26 11:55

Matrix: Solid

Date Received: 02/23/26 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	132990	02/25/26 13:05	SI	EET MID
Soluble	Analysis	300.0		1			133077	02/27/26 01:34	CS	EET MID

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

#### Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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### Method Summary

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
Project/Site: PLU 411

Job ID: 890-9540-1  
SDG: 03C1558811

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9540-1	SS 01	Solid	02/23/26 12:00	02/23/26 15:35	0.5
890-9540-2	SS 02	Solid	02/23/26 12:04	02/23/26 15:35	0.5
890-9540-3	SS 03	Solid	02/23/26 12:30	02/23/26 15:35	0.5
890-9540-4	SS 04	Solid	02/23/26 12:34	02/23/26 15:35	0.5
890-9540-5	BH 01	Solid	02/23/26 11:00	02/23/26 15:35	0.5
890-9540-6	BH 01A	Solid	02/23/26 11:05	02/23/26 15:35	1
890-9540-7	BH 01B	Solid	02/23/26 11:55	02/23/26 15:35	2

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# Chain of Custody

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

Environment Testing  
 Xenco



Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

Program:  RP  Rowfields  RC  Jperfund   
 State of Project:  Level III  Level IIII  PST/UST  TRRP  Level IV   
 Deliverables: EDD  ADaPT  Other: \_\_\_\_\_

Project Manager: Chris Wright  
 Company Name: Ensolum  
 Address: 3122 National Parks Hwy  
 City, State ZIP: Carlsbad, NM 88220  
 Phone: 575-706-6266  
 Bill to: (if different) Robert Woodall  
 Company Name: XTO Energy, Inc  
 Address: 3104 E Greene St  
 City, State ZIP: Carlsbad, NM 88220  
 Email: richard.kotzur@xencomobile.com

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Turn Around		Pres. Code	Parameters	Analytical Description	Preservative Codes
							<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush				
SS 01	Soil	2/23/2026	1200	0.5	Grab/	1	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		Chlorides	None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
SS 02			1254									
SS 03			1230									
SS 04			1234									
BH 01			1100									
BHC1A			1106									
BHC1B			1155									

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
 Circle Method(s) and Meta(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Evan Roe</i>	15:35	<i>[Signature]</i>	

**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-6550-1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Jessica.Kramer@et.eurofins.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Cent		Accreditations Required (See note): NELAP - Texas		Job #: 890-9540-1	Preservation Codes:
Address: 1211 W. Florida Ave., Midland TX, 79701		Due Date Requested: 2/27/2026		Analysis Requested:	
City: Midland State, Zip: TX, 79701		TAT Requested (days): N/A		Total Number of Containers	
Phone: 432-704-5440(Tel)		PO #: N/A		8015MOD_NM/8015NM_9_Prep(MOD) Full TPH	
Email: N/A		WO #: N/A		8015MOD_Calc	
Project Name: PLU 411		Project #: 89000110		300_ORGFM_28/DI_LEACHChloride	
Site: N/A		SSOW#: N/A		8021B/505FP_Calc(MOD) BTEX	
				Total_BTEX_GCV	
				Perform MS/MSD (Yes or No)	
				Field Filtered Sample (Yes or No)	
				Special Instructions/Note:	
				Other: N/A	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Organic, BT=Tissue, A=Air)	Preservation Code	8015MOD_NM/8015NM_9_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28/DI_LEACHChloride	8021B/505FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of Containers	Special Instructions/Note:
SS 01 (890-9540-1)	2/23/26	12:00 Mountain	G	Solid		X	X	X	X	X	1	
SS 02 (890-9540-2)	2/23/26	12:04 Mountain	G	Solid		X	X	X	X	X	1	
SS 03 (890-9540-3)	2/23/26	12:30 Mountain	G	Solid		X	X	X	X	X	1	
SS 04 (890-9540-4)	2/23/26	12:34 Mountain	G	Solid		X	X	X	X	X	1	
BH 01 (890-9540-5)	2/23/26	11:00 Mountain	G	Solid		X	X	X	X	X	1	
BH 01A (890-9540-6)	2/23/26	11:05 Mountain	G	Solid		X	X	X	X	X	1	
BH 01B (890-9540-7)	2/23/26	11:55 Mountain	G	Solid		X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Return To Client  
 Disposal By Lab  
 Archive For Months

Special Instructions/QC Requirements:

Primary Deliverable Rank: 2

Empty Kit Relinquished by: *Burns* Date: 2/23/26  
 Relinquished by: *Burns* Date: 2/23/26  
 Relinquished by: *Burns* Date: 2/23/26

Custody Seals Intact:  Yes  No  
 Custody Seal No.:

Received by: *Burns* Date: 2-24-26 800  
 Received by: *Burns* Date:   
 Received by: *Burns* Date:   
 Cooler Temperature(s) °C and Other Remarks:



### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9540-1

SDG Number: 03C1558811

**Login Number: 9540**

**List Number: 1**

**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9540-1

SDG Number: 03C1558811

Login Number: 9540

List Source: Eurofins Midland

List Number: 2

List Creation: 02/24/26 07:52 AM

Creator: Laing, Edmundo

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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May 06, 2026

CHRIS WRIGHT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU 411 - SPILL

Enclosed are the results of analyses for samples received by the laboratory on 04/30/26 13:16.

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:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH02 0.5' (H262464-01)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: SA					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3600</b>	16.0	05/01/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	201	101	200	8.08	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	204	102	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 88.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.7 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH02A 1' (H262464-02)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	05/01/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	201	101	200	8.08	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	204	102	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 89.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.8 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH02B 2' (H262464-03)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/01/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	201	101	200	8.08	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	204	102	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 90.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.6 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH03 0.5' (H262464-04)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: SA					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/01/2026	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 80.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH03A 1' (H262464-05)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 85.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH03B 2' (H262464-06)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 84.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.6 % 39.9-141

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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH04 0.5' (H262464-07)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 85.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH04A 1' (H262464-08)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-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	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 83.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH04B 2' (H262464-09)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 91.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH05 0.5' (H262464-10)**

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	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 70.4-141

Chloride, SM4500CI-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	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 77.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH05A 1' (H262464-11)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 70.4-141

Chloride, SM4500CI-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	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 80.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
CHRIS WRIGHT  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received:	04/30/2026	Sampling Date:	04/29/2026
Reported:	05/06/2026	Sampling Type:	Soil
Project Name:	PLU 411 - SPILL	Sampling Condition:	Cool & Intact
Project Number:	03C1558811	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.19265-103.77972		

**Sample ID: BH05B 2' (H262464-12)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2026	ND	2.17	108	2.00	1.27	
Toluene*	<0.050	0.050	05/01/2026	ND	2.30	115	2.00	2.16	
Ethylbenzene*	<0.050	0.050	05/01/2026	ND	2.47	124	2.00	3.22	
Total Xylenes*	<0.150	0.150	05/01/2026	ND	7.56	126	6.00	3.73	
Total BTEX	<0.300	0.300	05/01/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 70.4-141

Chloride, SM4500CI-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	05/01/2026	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/01/2026	ND	196	97.9	200	1.81	
DRO >C10-C28*	<10.0	10.0	05/01/2026	ND	179	89.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/01/2026	ND					

Surrogate: 1-Chlorooctane 79.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.3 % 39.9-141

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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.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

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: Ensolum, LLC  
 Project Manager: Christopher Wright  
 Address: 3102 National Parks Hwy  
 City: Carlsbad State: NM Zip  
 Phone #: 575-709-6266 Fax #:  
 Project #: 03C1558811 Project Owner:  
 Project Name: PLU 411 - Spill  
 Project Location: 32.19265, -103.77972  
 Sampler Name: Mario Sarkis  
 P.O. #: Company: XTO  
 Attn: Date Woodall  
 Address: 3104 E Greene St  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
	BH02	0.5	G	1	X							4/29/2026	9:44	X	X	X
	BH02A	1	G	1	X							4/29/2026	9:50	X	X	X
	BH02B	2	G	1	X							4/29/2026	9:53	X	X	X
	BH03	0.5	G	1	X							4/29/2026	10:39	X	X	X
	BH03A	1	G	1	X							4/29/2026	10:42	X	X	X
	BH03B	2	G	1	X							4/29/2026	10:44	X	X	X
	BH04	0.5	G	1	X							4/29/2026	10:58	X	X	X
	BH04A	1	G	1	X							4/29/2026	11:00	X	X	X
	BH04B	2	G	1	X							4/29/2026	11:02	X	X	X
	BH05	0.5	G	1	X							4/29/2026	11:16	X	X	X

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Relinquished By: *[Signature]* Date: 4-30-26 Received By: *[Signature]* Time: 1:51 PM  
 Date: 4/30/26 Received By: *[Signature]* Time:  
 Turnaround Time: Standard Rush  
 Verbal Result:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address: msarkis@ensolum.com / cwright@ensolum.com / kthompson@ensolum.com  
 Incident #: NAPP2525531138 Center: 1081191001/GFCM-48605000  
 Turnaround Time: Standard Rush  
 Thermometer ID #140 Correction Factor *to 1.0*  
 Bacteria (only) Sample Condition Cool Intact  Yes  No  
 Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C 0.2  
 Sampler - UPS - Bus - Other: Corrected Temp. °C 0.3  
 FORM-006 R 3.6 02/12/25  
 Sample Condition Cool Intact  Yes  No  
 Checked By: (Initials) *[Signature]*  
 Cost

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC  
 Project Manager: Christopher Wright  
 Address: 3102 National Parks Hwy  
 City: Carlsbad State: NM Zip  
 Phone #: 575-709-6266 Fax #: Project Owner:  
 Project #: 03C1556811  
 Project Name: PLU 411 - Spill  
 Project Location: 32.19265, -103.77972  
 Sampler Name: Mario Sarkis  
 P.O. #: Company: XTO  
 Attn: Dale Woodall  
 Address: 3104 E Greene St  
 City: Carlsbad  
 State: NM Zip: 88220  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
11	BH05A	1	G	1		X						4/29/2026	11:18	X	X	X
12	BH05B	2	G	1		X						4/29/2026	11:21	X	X	X

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Relinquished By: *[Signature]*  
 Date: 4/30/26 Received By: *[Signature]*  
 Time: 1:31p  
 Date: 4/30/26 Received By: *[Signature]*  
 Time: *[Blank]*

Delivered By: (Circle One) Observed Temp. °C: 0.3  
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 0.3  
 FORM-006 R 3.6 02/12/25

Sample Condition: Cool Intact  Yes  No  
 Checked By: *[Signature]*

Turnaround Time: Standard  Rush   
 Thermometer ID #140 Correction Factor +0.12  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Observed Temp. °C: Corrected Temp. °C:  
 Cost: *[Blank]*

Remarks: Incident # NAPP2525531138  
 Center: 1081191001/GFCM: 48605000  
 Verbal Results:  Yes  No Add'l Phone #:  
 All Results are emailed. Please provide Email address:  
 msarkis@ensolum.com / cwright@ensolum.com / kihompson@ensolum.com

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



## APPENDIX E

### Spill Volume Calculations

---

<b>Location:</b>	<b>PLU 411</b>	
<b>Spill Date:</b>	<b>8/13/2025</b>	
<b>Incident #:</b>		
<b>Area 1</b>		
Approximate Area =	6355	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.25	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =		bbls
Total Produced Water =	7.00	bbls
<b>Area 2</b>		
Approximate Area =		sq. ft.
Average Saturation (or depth) of spill =		inches
<b>VOLUME OF LEAK</b>		
Total Crude Oil =		bbls
Total Produced Water =		bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =		bbls
Total Produced Water =	7.0	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =		bbls
Total Produced Water =	7	bbls

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

QUESTIONS

Action 505607

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 505607
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2525531138
Incident Name	NAPP2525531138 PLU 411 @ B-28-24S-31E
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 411
Date Release Discovered	08/13/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 7 BBL   Recovered: 7 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 505607

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 505607
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/12/2025
--	--

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QUESTIONS, Page 3

Action 505607

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 505607
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<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	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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CONDITIONS

Action 505607

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 505607
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	None	9/12/2025

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QUESTIONS

Action 596994

**QUESTIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2525531138
Incident Name	NAPP2525531138 PLU 411 @ FAPP2126357691
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126357691] POKER LAKE UNIT 411 BATT

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU 411
Date Release Discovered	08/13/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pump   Produced Water   Released: 7 BBL   Recovered: 7 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 596994

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Kim Thomason Title: Ensolum Consultant Email: kthomason@ensolum.com Date: 06/18/2026
--	---

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QUESTIONS, Page 3

Action 596994

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 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	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	3600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/13/2025
On what date will (or did) the final sampling or liner inspection occur	04/29/2026
On what date will (or was) the remediation complete(d)	04/29/2026
What is the estimated surface area (in square feet) that will be reclaimed	6600
What is the estimated volume (in cubic yards) that will be reclaimed	489
What is the estimated surface area (in square feet) that will be remediated	6600
What is the estimated volume (in cubic yards) that will be remediated	0

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 596994

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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.)	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	No impacted soil identified

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: Kim Thomason Title: Ensolum Consultant Email: kthomason@ensolum.com Date: 06/18/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

QUESTIONS, Page 5

Action 596994

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 596994

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>578253</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>04/29/2026</b>
What was the (estimated) number of samples that were to be gathered	<b>16</b>
What was the sampling surface area in square feet	<b>6864</b>

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6600
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6600
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection and delineation activities were conducted at the Site to address the August 2025 release of produced water. Laboratory analytical results for the delineation soil samples, collected below the five liner tears, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. Ensolum patched the tears in the liner following completion of delineation activities. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2525531138.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Kim Thomason Title: Ensolum Consultant Email: kthomason@ensolum.com Date: 06/18/2026

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QUESTIONS, Page 7

Action 596994

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 596994

**CONDITIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 596994
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	None	6/26/2026