



May 22, 2026

**New Mexico Oil Conservation District**

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

**Re: Remediation Work Plan  
James Ranch Unit Legg Pond  
Incident Number nAPP2533525860  
Facility ID fAB1902552191  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared this *Remediation Work Plan (Work Plan)* to propose delineation and excavation activities at the James Ranch Unit Legg Pond (Site) following a release of produced water located on a pipeline right-of-way (ROW). The purpose of the proposed remedial activities is to confirm the presence or absence of sensitive receptors near the Site and propose removal of impacted and/or waste-containing soil.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit E, Section 14, Township 21 South, Range 29 East, in Eddy County, New Mexico (32.4817437°, -103.9617649°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) under Lease ID E0-5233-0012.

On November 26, 2025, a gauge located on a pipeline riser failed, resulting in the release of approximately 8.5 barrels (bbls) of produced water to the surface of a pipeline ROW. No fluids were recovered. A photographic log showing the release area upon discovery of the release is included in Appendix A. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on December 1, 2025, and submitted an Initial C-141 Application (C-141) on December 2, 2025. The release was assigned Incident Number nAPP2533525860.

## **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 estimated to be greater than 100 feet below ground surface (bgs) based on a United States Geological Survey (USGS) groundwater well. The closest permitted groundwater well with available depth to groundwater data is USGS well 322913103564301, located approximately 0.95 miles northeast of the Site. The most recent recorded depth to groundwater was reported as 189.74 feet bgs on January 28, 1998. All wells used to determine depth to groundwater are depicted on Figure 1. The Referenced Well Records are included in Appendix B.

XTO Energy, Inc  
Remediation Work Plan  
James Ranch Unit Legg Pond

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The closest continuously flowing or significant watercourse to the Site is an intermittently flooded riverine located approximately 785 feet north 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 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is potentially underlain by unstable geology (medium potential karst designation area).

Based on the results of the Site Characterization, and the NMOCDs preference for groundwater data within 0.5 miles from the Site, and depth to groundwater data being collected in the last 25 years, 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): 100 mg/kg
- Chloride: 600 mg/kg

XTO proposes a depth to water soil boring to 105 feet bgs within 0.5 miles of the Site to verify the local groundwater elevation. Additionally, XTO proposes to conduct a desktop survey, aerial/pedestrian survey, and a geophysical karst survey to confirm the existence or absence of void anomalies below the Site. Assuming regional depth to water is confirmed greater than 100 feet bgs, and the absence of void anomalies is confirmed, a proposed Closure Criteria will be applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- BTEX: 50 mg/kg
- TPH- gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

## **NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW**

### Cultural Properties Protection

The entirety of the release was identified on the ROW. As a result, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review was performed at the Site and its surroundings, prior to any potential surface disturbance with mechanical equipment. No cultural resources were identified within or around the release extent where remediation efforts may be required.



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James Ranch Unit Legg Pond

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The CPP Rule cover sheet presenting the ARMS review results and NMSLO approval letter is attached in Appendix C.

### Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site but potential habitats of the Piping Plover and Texas Hornshell Clam may exist. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated potential habitats for Scheer's beehave cactus near the Site. Threatened and endangered plant species are potentially present in the area surrounding the Site; however, no native vegetation outside of the release extent, which lies entirely on a ROW, will be disturbed during remediation activities.
- The Site is not located within a NMSLO Candidate Conservation Agreement with Assurances (CCAA) area for the Lesser Prairie Chicken (LPC), but the Site is within the historic range of the LPC.
  - Measures to comply with the CCAA include avoiding construction activities during breeding, nesting, and early brood-rearing seasons (March 1<sup>st</sup> through June 15<sup>th</sup>, between the hours of 3:00 am and 9:00am).
- The Site is underlain by unstable geology (medium potential karst designation area), as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Cacique loamy sand. The Cacique loamy sand is not considered a sensitive soil per the NMSLO guidelines.

### **DELINEATION AND EXCAVATION ACTIVITIES**

Between February 19, 2026, and April 7, 2026, Ensolum personnel were on Site to conduct delineation and excavation activities. Four surface delineation soil samples (SS01 through SS04) were collected around the release extent to laterally define the release at ground surface. Five boreholes (BH01 through BH05) were advanced via hand auger within and around the release extent to assess the vertical impacts at the Site, with discrete soil samples collected at every foot interval from ground surface to terminal depth of each borehole, until refusal was encountered. All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and visual observations were documented on lithologic soil sampling logs included in Appendix D.

The 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 Laboratories (Eurofins) in Carlsbad, New Mexico or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analysis of the following constituents 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 with Eurofins and Standard Method 4500 with Cardinal.



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Excavation to remove gross impacts was conducted at the Site utilizing heavy equipment. The release extent was excavated to a maximum extent practicable of 4 feet bgs due to subsurface produced water lines bisecting the release. Approximately 90 cubic yards were excavated from a 600 square foot area. Following the removal of impacted soil, Ensolum personnel collected 5-point composite confirmation soil samples representing no more than 200 square feet from the side walls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Three confirmation soil samples (CS01 through CS03) were collected from the floor of the excavation at a depth of 4 feet bgs. Four confirmation soil samples (SW01 through SW04) were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. The 5-point composite soil samples were handled using the above-described procedures and transported to Cardinal for the COCs described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicate delineation soil samples SS01 through SS04, BH04, and BH05 COC concentrations are compliant with the proposed Closure Criteria and reclamation requirement, successfully defining the lateral extent of the release. Laboratory analytical for vertical delineation soil samples BH01 through BH03, within the release extent, indicate chloride concentrations exceed the reclamation requirement. In addition, confirmation soil samples CS01 through CS03, collected at 4 feet bgs indicate all COCs are compliant with the proposed Closure Criteria, however all sidewall soil samples, collected from ground surface to 4 feet bgs, indicate chloride concentrations exceed the reclamation requirement. Laboratory analytical results are summarized in Table 1 and complete laboratory analytical reports are provided in Appendix E.

## PROPOSED REMEDIAL ACTIVITIES

XTO requests approval to complete the following remediation activities in response to the November 2025 produced water release:

- Advance a soil boring within a 0.5-mile radius to the Site, to confirm the regional groundwater depth in relation to Table I Closure Criteria. The soil boring will be advanced by means of air rotary drill, within the ROW extent to adhere to the ARMS review previously performed. A land access request has been approved by the NMSLO. The soil boring permits required by NMOSE are currently in draft. The NMSLO soil boring approval letter is provided in Appendix C.
- Conduct a desktop survey, aerial/pedestrian survey, and a geophysical karst survey to assess karst features beneath the site and confirm the absence or existence of void anomalies within the subsurface. A Karst Survey Report will be prepared and attached with the Closure Request.
- If depth to water is confirmed at least greater than 100 feet bgs, and no void anomalies are presented below the Site, remediation of the Site will proceed as follows:
- Site Closure Criteria would adjust to the applicable Table I Closure Criteria.
- Excavation of waste-containing and/or impacted soil will proceed according to the proposed Site Closure Criteria. The proposed excavation is depicted on Figure 3.

XTO Energy, Inc  
Remediation Work Plan  
James Ranch Unit Legg Pond

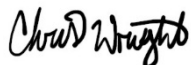
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- Additional vertical delineation will proceed beyond 4 feet bgs within the excavation, into the underlying bedrock at 4 feet bgs, to confirm chloride concentrations do not continue to increase with depth.
- Five-point confirmation soil samples will be collected for every 200 square feet of the excavation sidewalls and floors. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples will be field screened for VOCs and chloride.
- The confirmation soil samples will be 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 will be transported under strict chain-of-custody procedures to Cardinal or Eurofins, for analysis of the above-mentioned COCs.
- An estimated additional 45 cubic yards of impacted and/or waste-containing soil will be excavated and transported to a New Mexico approved landfill facility for disposal. A dig plan will be developed to safely remove the impacts beneath the southwest produced water pipeline riser supported by the soil, and hydrovacuum will remove the impacts around the subsurface line bisecting the northeast area of the release following confirmation of Closure Criteria with the above-mentioned methods.
- The excavation will be backfilled with non waste-containing, locally purchased topsoil and recontoured to match pre-existing Site conditions. One sample will be collected from the backfill material and analyzed for BTEX, TPH and chloride using the methods described above to ensure all COCs are compliant with Site Closure Criteria. The pasture will be reseeded with an SLO-approved seed mixture.

XTO believes this *Work Plan* is protective of human health, the environment, and groundwater. As such, XTO requests approval of this *Work Plan* by the NMOCD. XTO will complete the excavation and soil sampling activities within 90 days of the date of approval of this *Work Plan*.

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, M.S., P.G. (licensed in TX)  
Associate Principal

Cc: Robert Woodall, XTO  
Richard Kotzur, XTO



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Remediation Work Plan  
James Ranch Unit Legg Pond

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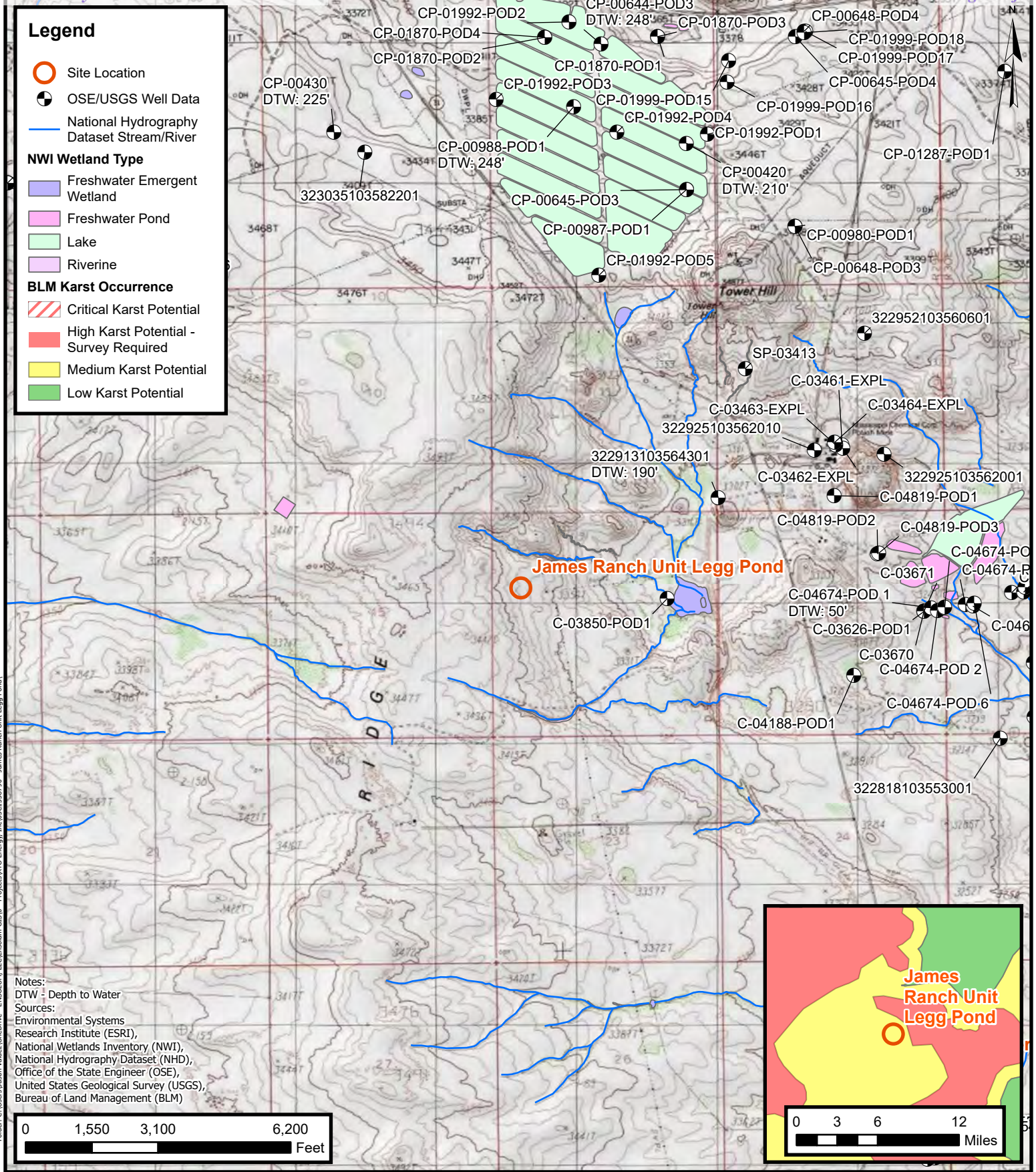
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Referenced Well Records
Appendix C	Land Access References
Appendix D	Lithologic Soil Sampling Log
Appendix E	Laboratory Analytical Reports & Chain of Custody Documentation
Appendix F	Spill Volume Calculations



FIGURES



# Site Receptor Map

XTO Energy, Inc  
 James Ranch Unit Legg Pond  
 Incident Number: nAPP2533525860  
 Unit E, Section 14, T 21S, R 29E  
 Eddy County, New Mexico

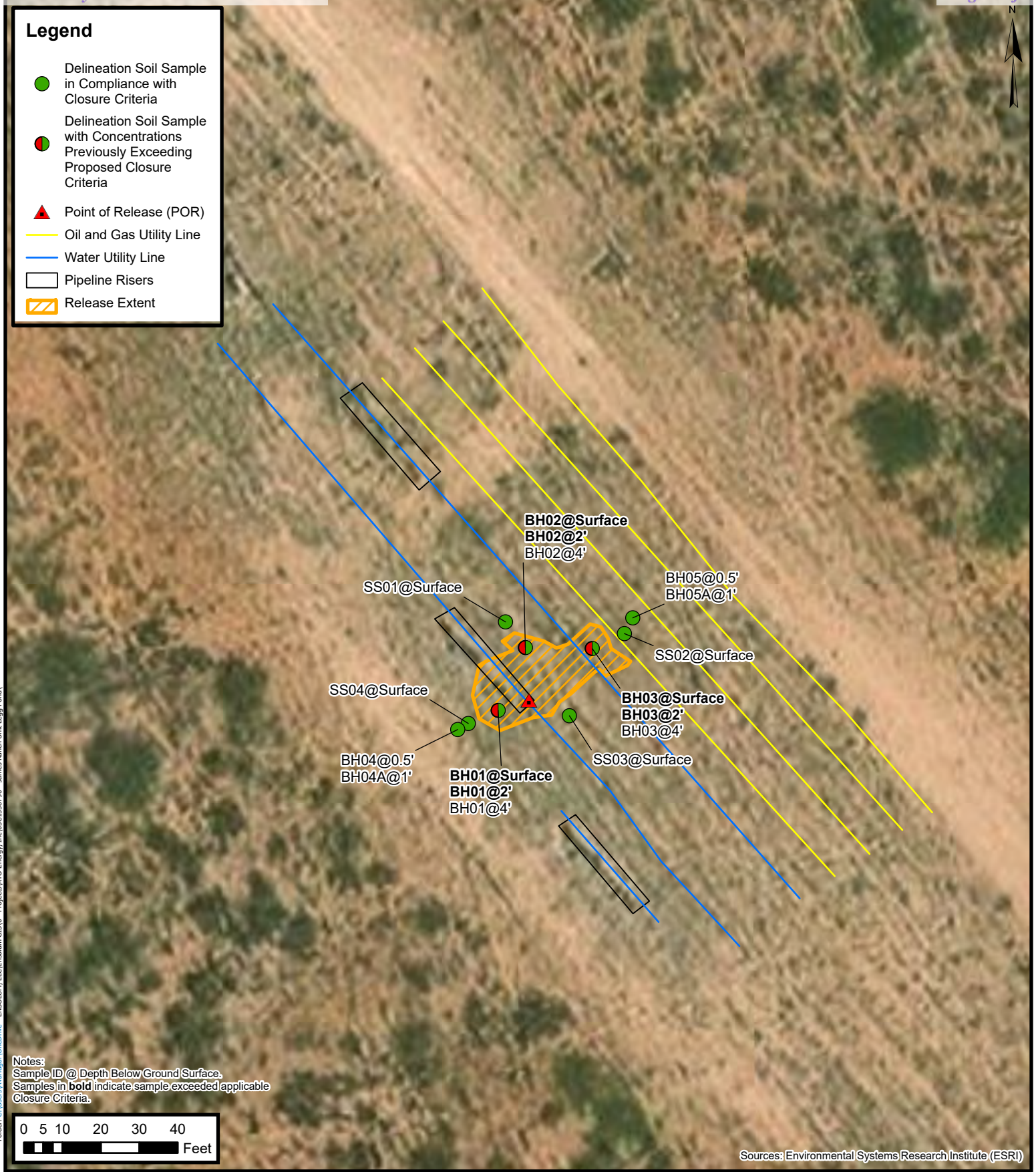
## FIGURE

# 1

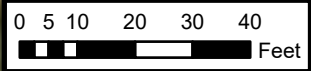


### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Proposed Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Water Utility Line
- Pipeline Risers
- Release Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)

## Delineation Soil Sample Locations

XTO Energy, Inc  
 James Ranch Unit Legg Pond  
 Incident Number: nAPP2533525860  
 Unit E, Section 14, T 21S, R 29E  
 Eddy County, New Mexico

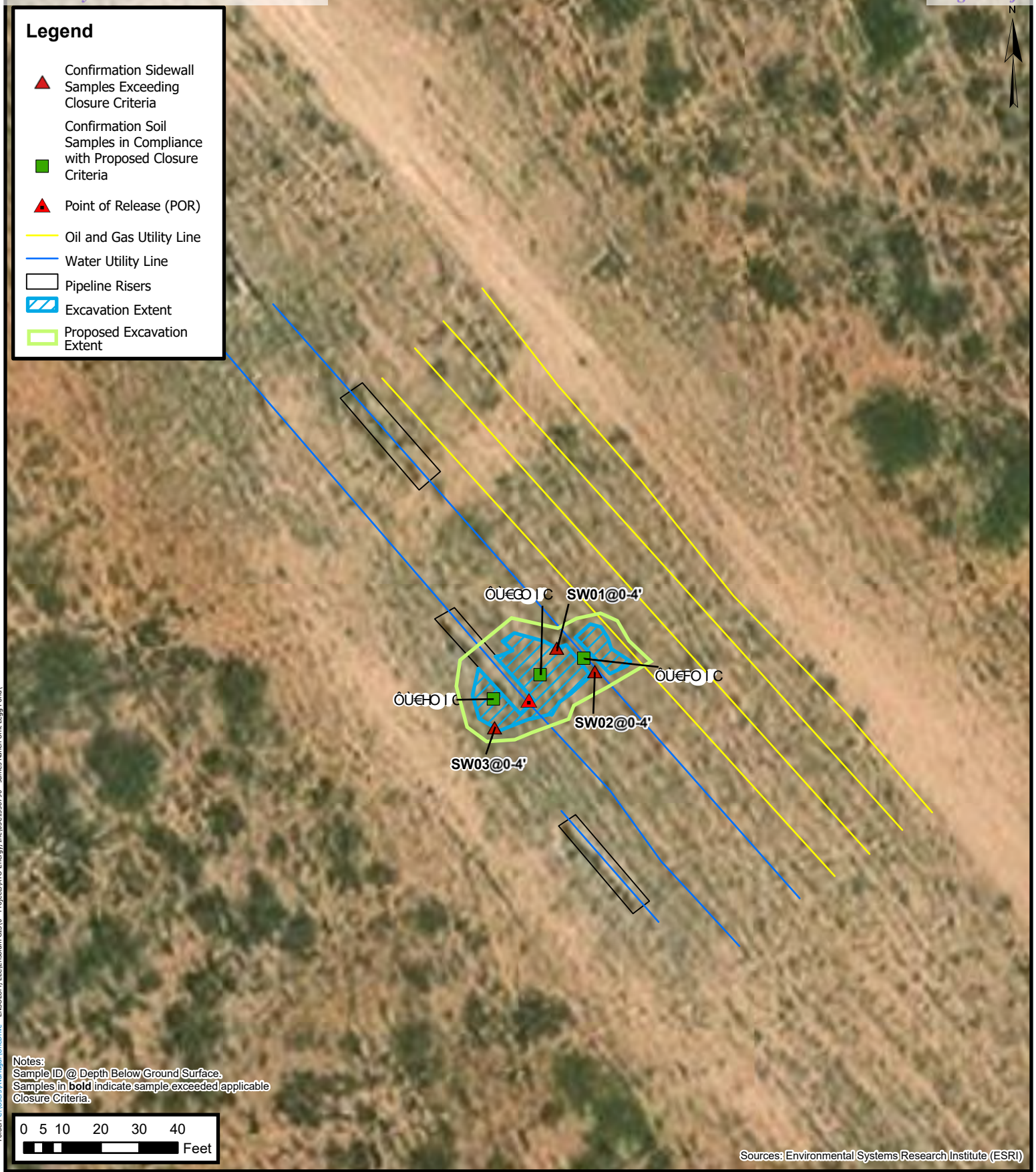
**FIGURE**

**2**

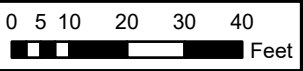


### Legend

- ▲ Confirmation Sidewall Samples Exceeding Closure Criteria
- Confirmation Soil Samples in Compliance with Proposed Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Water Utility Line
- Pipeline Risers
- Excavation Extent
- Proposed Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.



Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Location

XTO Energy, Inc  
 James Ranch Unit Legg Pond  
 Incident Number: nAPP2533525860  
 Unit E, Section 14, T 21S, R 29E  
 Eddy County, New Mexico

### FIGURE

# 3





TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
James Ranch Unit Legg Pond  
XTO Energy, Inc  
Eddy County, New Mexico**

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>NMOCDC 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>										
SS01	02/19/2026	Surface	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	169
SS02	02/19/2026	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<9.98
SS03	02/19/2026	Surface	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	17.3
SS04	02/19/2026	Surface	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	202
BH01	02/19/2026	Surface	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<b>5,010</b>
BH01	02/19/2026	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<b>5,620</b>
BH01	05/18/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,080
BH02	02/19/2026	Surface	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<b>4,130</b>
BH02	02/19/2026	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	<b>4,050</b>
BH02	05/18/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,700
BH03	02/19/2026	Surface	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	<b>4,000</b>
BH03	02/19/2026	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<b>2,370</b>
BH03	05/18/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	13,500
BH04	04/07/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH04A	04/07/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05	04/07/2026	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH05A	04/07/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
<b>Confirmation Soil Samples</b>										
CS01	04/07/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,520
CS02	04/07/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360
CS03	04/07/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
SW01	05/18/2026	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>9,600</b>
SW02	05/18/2026	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>2,450</b>
SW03	05/18/2026	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,410</b>
SW04	05/18/2026	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<b>1,780</b>

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCDC 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

\*: Proposed Closure Criteria following depth to water soil boring and karst survey



APPENDIX A  
Photographic Log

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## Photographic Log



XTO Energy, Inc  
James Ranch Unit Legg Pond  
nAPP2533525860

<p><u>Photograph</u> 1</p>	<p><u>Date</u> 11/26/2025</p>	
<p><u>Description</u> Initial release in pasture</p>		
<p><u>View</u> Northeast</p>		
<p><u>Photograph</u> 2</p>	<p><u>Date</u> 11/26/2025</p>	
<p><u>Description</u> Initial release in pasture</p>		
<p><u>View</u> Northwest</p>		



## Photographic Log


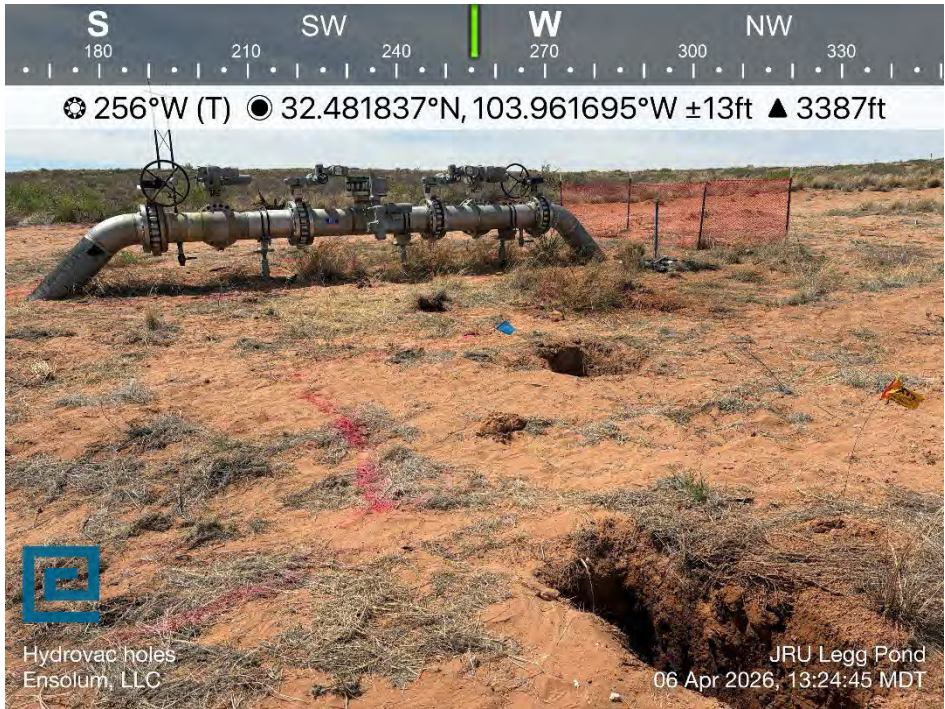
XTO Energy, Inc  
James Ranch Unit Legg Pond  
nAPP2533525860

<p><u>Photograph</u> 3</p>	<p><u>Date</u> 11/26/2025</p>	
<p><u>Description</u> Release extent near pipeline riser in pasture</p>		
<p><u>View</u> Northwest</p>		
<p><u>Photograph</u> 4</p>	<p><u>Date</u> 02/19/2026</p>	
<p><u>Description</u> Vertical delineation, BH01</p>		
<p><u>View</u> Northwest</p>		



## Photographic Log

XTO Energy, Inc  
James Ranch Unit Legg Pond  
nAPP2533525860

<p><u>Photograph</u> 5</p>	<p><u>Date</u> 02/19/2026</p>	 <p>2/19/26 11:08 32.48186638 -103.96173707 191° S</p>
<p><u>Description</u> Vertical delineation, BH02</p>		
<p><u>View</u> South</p>		
<p><u>Photograph</u> 6</p>	<p><u>Date</u> 04/07/2026</p>	 <p>S 180 SW 210 W 270 NW 300 330 256°W (T) 32.481837°N, 103.961695°W ±13ft ▲ 3387ft</p> <p>Hydrovac holes Ensolum, LLC</p> <p>JRU Legg Pond 06 Apr 2026, 13:24:45 MDT</p>
<p><u>Description</u> Hydrovac activities, near CS01</p>		
<p><u>View</u> West</p>		



## Photographic Log

XTO Energy, Inc  
James Ranch Unit Legg Pond  
nAPP2533525860

<p><u>Photograph</u> 7</p>	<p><u>Date</u> 04/07/2026</p>	
<p><u>Description</u> Excavation extent, near CS02</p>		
<p><u>View</u> East</p>		
<p><u>Photograph</u> 8</p>	<p><u>Date</u> 04/07/2026</p>	
<p><u>Description</u> Excavation extent, near CS03</p>		
<p><u>View</u> Southeast</p>		



## APPENDIX B

### Referenced Well Records

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# Monitoring location

21S.29E.12.33333 - USGS-322913103564301

**DID YOU KNOW** You can see all water data collected at this monitoring location in the *Available data* section of the page. Learn more about [centralized water data delivery](#) in WDFN.

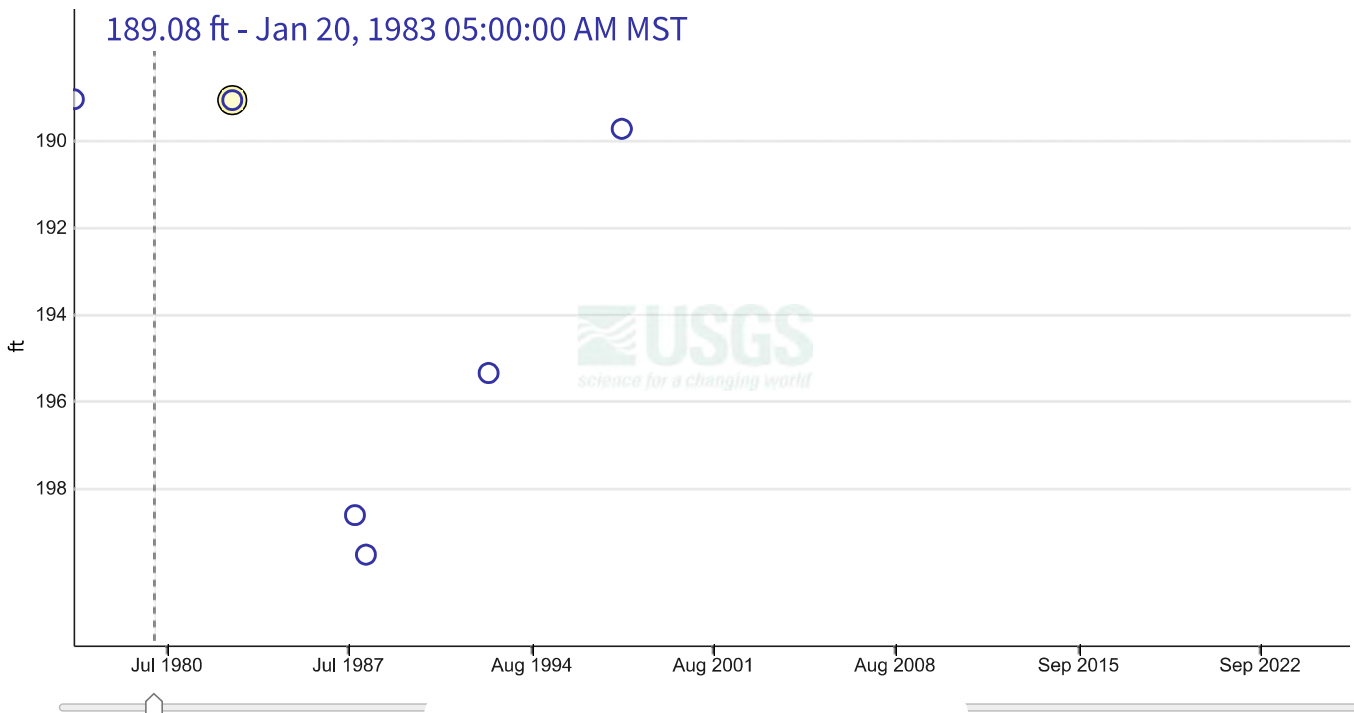
- 1 year
- 10 years
- Period of record

## Field measurements

**21S.29E.12.33333 - USGS-322913103564301**

December 9, 1976 - February 19, 2026

**Depth to water level, feet below land surface**



Questions or Comments

⚠️ Data may be [provisional](#)

[Hide legend](#) ^

- Field measurement
- Selected field measurement

[Hide legend](#) ^

[Hide graph details ^](#)

	Value	Status	
<input checked="" type="radio"/> Selected field measurement	189.08	Approved Static	Jan 20, 1983 05:00:00 AM MST

[Hide graph details ^](#)

Change time span

Download data

View data records

Start typing a time code to filter the Time column:

**Depth to water level, feet below land surface -- field measurements**

Time ↓	Result	Approval	Qualifiers
1998-01-28T05:00:00.000-07:00	189.74	Approved	Static
1992-12-09T05:00:00.000-07:00	195.36	Approved	Static
1988-03-17T05:00:00.000-07:00	199.54	Approved	Static
1987-10-14T06:00:00.000-06:00	198.63	Approved	Static
1983-01-20T05:00:00.000-07:00	189.08	Approved	Static
1976-12-09T05:00:00.000-07:00	189.06	Approved	Static

[Hide view data records ^](#)

**Available data**

Show all data types

Select data types to graph from categories based on the way the data were collected.

Learn about the data collection categories

**Continuous data**

0 data types available

### Daily data

0 data types available

### Field measurements

3 data types available - data from 1976-12-09 to 1998-01-28

Hide these data types

Field measurements are physically measured values collected during a visit to the monitoring location.

[Learn about Field measurements](#)

	Data type	Data date range
Graphed	Depth to water level, feet below land surface	1976-12-09 1998-01-28
<a href="#">Graph it</a>	Groundwater level above NAVD 1988, feet	1976-12-09 1998-01-28
<a href="#">Graph it</a>	Groundwater level above NGVD 1929, feet	1976-12-09 1998-01-28

Hide these data types

### Discrete sample data

0 observed properties (data types) available

### Statistical tables for select daily data types

0 data types available

### Location details and information

Show location details

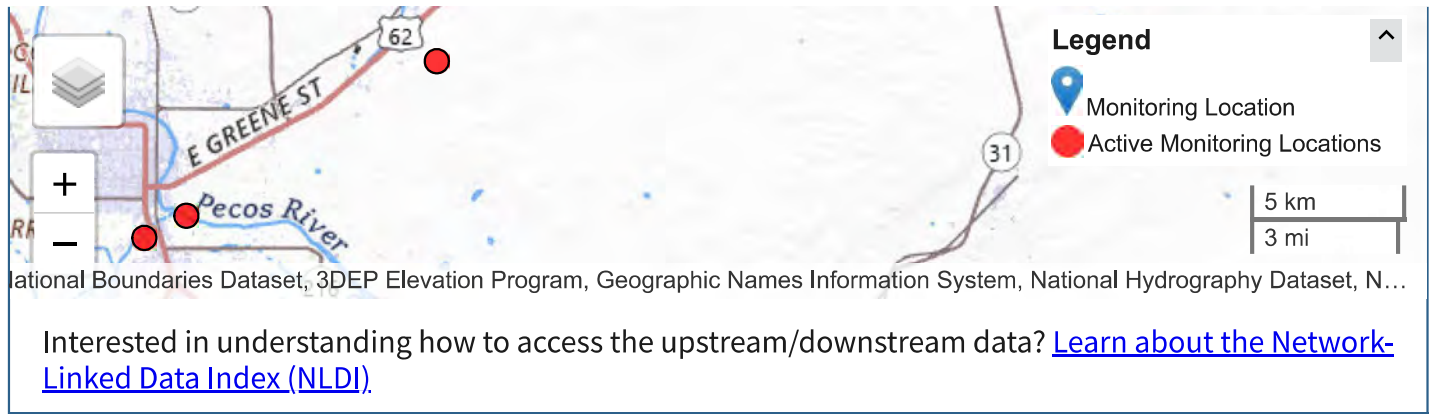
### Monitoring locations with continuous data in last 120 days

6 locations found

[View these locations in My Favorites](#)

[Use Explore USGS Water Data to discover additional data near this location](#)





The map displays the Pecos River and surrounding area, including E GREENE ST and highways 62 and 31. Three red dots indicate active monitoring locations. A legend in the top right corner identifies a blue location pin as a 'Monitoring Location' and a red dot as an 'Active Monitoring Location'. A scale bar shows 5 km and 3 mi. Map controls like a layer selector and zoom buttons are visible on the left. Below the map, text reads: 'ational Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, N...'. A link is provided: 'Interested in understanding how to access the upstream/downstream data? [Learn about the Network-Linked Data Index \(NLDI\)](#)'.

[DOI Privacy Policy](#) | [Legal](#) | [Accessibility](#) | [Site Map](#) | [Contact USGS](#)

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[U.S. Department of the Interior](#) | [DOI Inspector General](#) | [White House](#) | [No Fear Act](#) | [FOIA](#)



## APPENDIX C

### Land Access References

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**Stephanie Garcia Richard**  
COMMISSIONER

*State of New Mexico*  
*Commissioner of Public Lands*

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

**COMMISSIONER'S OFFICE**  
Phone (505) 827-5760  
Fax (505) 827-5766  
www.nmstatelands.org

MEMORANDUM

TO: **Ensolum on behalf of XTO Energy**

FROM: **Carlyn Stewart, Trust Land Archaeologist**  
*(505) 365-3800*  
*cstewart@nmslo.gov*

SUBJECT: **Ensolum LLC on Behalf of XTO Energy**  
**Remediation for: James Ranch Legg Pond**  
**T21S R29E S14 N.M.P.M. Eddy County**

REFERENCE: **NMSLO Cultural Properties Protection Rule (19.2.24 NMAC)**

DATE: **1/28/2026**

Thank you for your submission relating to the Proponent's proposed remediation activities at James Ranch Legg Pond. An archaeological survey of the entire area of potential effect has been completed (NMCRIS Activity No. 140447) and no cultural properties were identified. Pursuant to NMSLO 19.2.24.8 (C) NMAC, remediation may proceed.

If any cultural materials are inadvertently encountered during surface disturbance, work must cease within 50 feet and the NMSLO Cultural Resources Office must be notified immediately by emailing ([CROinfo@slo.state.nm.us](mailto:CROinfo@slo.state.nm.us)). Please reach out if you have questions or need additional clarification.



## NMSLO Cultural Resources Cover Sheet

### ARMS Inspection/Review

**To:** Cultural Resources Office, New Mexico State Land Office, Santa Fe, New Mexico

**Re:** Proposed "XTO's James Ranch Legg Pond Remediation ARMS"

**ARMS Inspection/Review ID:** A-20251223-001240

### Proposed Project Details

**Permitted Cultural Consultant Name:** Beaver Creek Archaeology, Inc.

**Permitted Cultural Consultant Phone Number:** (701) 663 - 5521

**Permitted Cultural Consultant Email Address:** rhanley@bcarch.org

Ensolum, LLC on behalf of XTO Energy has contracted Beaver Creek Archaeology, Inc. to conduct an ARMS Inspection/Review for a proposed project "XTO's James Ranch Legg Pond Remediation ARMS" located on New Mexico State Trust Lands in T21S R29E S14 in Eddy county. The Lead Agency for this project is SLO.

The ARMS Inspection/Records Review associated with this project has been conducted per the pre-field requirements of 4.10.15.9 NMAC on 12/19/2025.

The review was conducted for the Area of Potential Effect (APE) and 500 meters surrounding the APE. Information regarding the review results can be found in the uploaded Table 1-Cultural Surveys within 500 meters of proposed project and Table 2-Cultural Resources within 500 meters of proposed project.

### Results-Recommendation

The majority of the workspace limits for the proposed remediation efforts is located within existing pipeline disturbance. The portion of the workspace limits outside of this area has been previously surveyed under NMCRIS Activity No. 140447. Additionally, the vast majority of the inventory area, which accounts for a 100' cultural buffer extending from all sides of the workspace limits, has been covered by the previous survey. No previously recorded cultural resources are documented as being located within or within 100' of the inventory area.

### NMSLO Administrative Use Only:

**NMSLO Lease Number:** \_\_\_\_\_

**Lease Analyst:** \_\_\_\_\_



*State of New Mexico*  
*Commissioner of Public Lands*

**Stephanie Garcia Richard**  
COMMISSIONER

**COMMISSIONER'S  
OFFICE**

Phone (505) 827-5760

Fax (505) 827-5766

www.nmstatelands.org

310 OLD SANTA FE TRAIL  
P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

May 19, 2026

New Mexico Office of the State Engineer  
District II  
1900 West Second Street  
Roswell, New Mexico 88201

**Re: XTO ENERGY, INC Application for Borehole.**

To Whom it May Concern:

The State Land Office has authorized XTO ENERGY, INC to drill one bore hole in the following location:

SWNW Section 14 Township 21S Range 29E; 32.481470, -103.961660

This activity is authorized under State Land Office Business Lease ID# E052330012 to determine the depth of groundwater for the remediation project associated with open NMOCD Incident Number: nAPP2533525860.

Before processing, please email me a copy of the application submitted to your office so that I can verify that the information provided to you is consistent with the activity that the State Land Office has approved.

Sincerely,

*Deon David*


Deon David  
Environmental Specialist  
SRD-Environmental Compliance Office (ECO)  
New Mexico State Land Office  
ddavid@nmslo.gov





## APPENDIX D

### Lithologic Soil Sampling Log

---

					Sample Name: BH01		Date: 2/19 - 5/18/2026	
					Site Name: James Ranch Unit Legg Pond			
					Incident Number: nAPP2533525860			
					Job Number: 03C1558790			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: ER, CJ		Method: Hand Auger	
Coordinates: 32.481723, -103.961777					Hole Diameter: 3"		Total Depth: 4'	
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 40% correction factor is included for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	6,456	1.0	N	BH01	Surface	0	SC	0 - 4': Fine grained sand with clay and few gravels. Cohesive, low plasticity.
D	6,456	1.0	N	BH01	1	1		
D	8,204	1.6	N	BH01	2	2		
					3	3		
D	8,892	3.6	N	BH01	4	4		
						Total Depth @ 4'		
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; right: 0; border-left: 1px solid black; border-bottom: 1px solid black; width: 50%; height: 50%;"></div> </div>								

					Sample Name: BH02		Date: 2/19 - 5/18/2026	
					Site Name: James Ranch Unit Legg Pond			
					Incident Number: nAPP2533525860			
					Job Number: 03C1558790			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: ER, CJ		Method: Hand Auger	
Coordinates: 32.481767, -103.961754					Hole Diameter: 3"		Total Depth: 4'	
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 40% correction factor is included for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,079	1.2	N	BH02	Surface	0	SC	0 - 4': Fine grained sand with clay and few gravels. Cohesive, low plasticity.
D	5,079	1.5	N	BH02	1	1		
D	6,456	0.9	N	BH02	2	2		
					3	3		
D	15,876	2.5	N	BH02	4	4		
						Total Depth @ 4'		
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								

					Sample Name: BH03		Date: 2/19 - 5/18/2026	
					Site Name: James Ranch Unit Legg Pond			
					Incident Number: nAPP2533525860			
					Job Number: 03C1558790			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: ER, CJ		Method: Hand Auger	
Coordinates: 32.481766, -103.961697					Hole Diameter: 3"		Total Depth: 4'	
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 40% correction factor is included for chloride.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	4,687	1.0	N	BH03	Surface	0	SC	0 - 4': Fine grained sand with clay and few gravels. Cohesive, low plasticity.
D	5,079	1.0	N	BH03	1	1		
D	5,079	1.6	N	BH03	2	2		
					3	3		
D	22,176	3.6	N	BH03	4	4		
						Total Depth @ 4'		
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 1px solid black; border-bottom: 1px solid black;"></div>								







## APPENDIX E

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 11:33:29 AM

## JOB DESCRIPTION

James Ranch Unit Legg Pond  
 03C1558790

## JOB NUMBER

890-9529-1



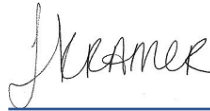
# Eurofins Carlsbad

## 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 11:33:29 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: James Ranch Unit Legg Pond

Laboratory Job ID: 890-9529-1  
SDG: 03C1558790

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## Definitions/Glossary

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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: James Ranch Unit Legg Pond

Job ID: 890-9529-1

**Job ID: 890-9529-1**

**Eurofins Carlsbad**

## Job Narrative 890-9529-1

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 2/19/2026 3:16 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 5.6°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-9529-1), SS 02 (890-9529-2), SS 03 (890-9529-3), SS 04 (890-9529-4), BH 01 (890-9529-5), BH 01 (890-9529-6), BH 02 (890-9529-7), BH 02 (890-9529-8), BH 03 (890-9529-9) and BH 03 (890-9529-10).

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-132843 and analytical batch 880-133054 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

### Diesel Range Organics

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-132426/1-A). 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.

### 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: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: SS 01**

**Lab Sample ID: 890-9529-1**

Date Collected: 02/19/26 12:00

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 16:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 16:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 16:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/24/26 12:38	02/26/26 16:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 16:34	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/24/26 12:38	02/26/26 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	02/24/26 12:38	02/26/26 16:34	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/24/26 12:38	02/26/26 16:34	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			02/26/26 16:34	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			02/28/26 19:16	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		02/19/26 17:21	02/28/26 19:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 19:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/19/26 17:21	02/28/26 19:16	1
o-Terphenyl	109		70 - 130	02/19/26 17:21	02/28/26 19:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		9.92	mg/Kg			02/24/26 20:25	1

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9529-2**

Date Collected: 02/19/26 12:02

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 16:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 16:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 16:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/26 12:38	02/26/26 16:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 16:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/26 12:38	02/26/26 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/24/26 12:38	02/26/26 16:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/24/26 12:38	02/26/26 16:54	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9529-2**

Date Collected: 02/19/26 12:02

Matrix: Solid

Date Received: 02/19/26 15:16

**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			02/26/26 16:54	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			02/28/26 19:31	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		02/19/26 17:21	02/28/26 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/19/26 17:21	02/28/26 19:31	1
o-Terphenyl	114		70 - 130	02/19/26 17:21	02/28/26 19:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			02/24/26 20:45	1

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9529-3**

Date Collected: 02/19/26 12:04

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 17:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 17:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 17:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/24/26 12:38	02/26/26 17:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 17:15	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/24/26 12:38	02/26/26 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/24/26 12:38	02/26/26 17:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/24/26 12:38	02/26/26 17:15	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			02/26/26 17:15	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			02/28/26 19:46	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		02/19/26 17:21	02/28/26 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 19:46	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9529-3**

Date Collected: 02/19/26 12:04

Matrix: Solid

Date Received: 02/19/26 15:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 19:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			02/19/26 17:21	02/28/26 19:46	1
o-Terphenyl	117		70 - 130			02/19/26 17:21	02/28/26 19:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		10.0	mg/Kg			02/24/26 20:52	1

**Client Sample ID: SS 04**

**Lab Sample ID: 890-9529-4**

Date Collected: 02/19/26 12:06

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 17:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 17:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 17:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/24/26 12:38	02/26/26 17:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 17:35	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/24/26 12:38	02/26/26 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			02/24/26 12:38	02/26/26 17:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130			02/24/26 12:38	02/26/26 17:35	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			02/26/26 17:35	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			02/28/26 20:01	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		02/19/26 17:21	02/28/26 20:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/19/26 17:21	02/28/26 20:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/19/26 17:21	02/28/26 20:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			02/19/26 17:21	02/28/26 20:01	1
o-Terphenyl	124		70 - 130			02/19/26 17:21	02/28/26 20:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		10.1	mg/Kg			02/24/26 21:12	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 01**  
 Date Collected: 02/19/26 10:20  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-5**  
 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		02/24/26 12:38	02/26/26 17:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 17:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 17:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/26 12:38	02/26/26 17:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 17:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/26 12:38	02/26/26 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	02/24/26 12:38	02/26/26 17:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/24/26 12:38	02/26/26 17:56	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			02/26/26 17:56	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			02/28/26 20:15	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		02/19/26 17:21	02/28/26 20:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/19/26 17:21	02/28/26 20:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/19/26 17:21	02/28/26 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	02/19/26 17:21	02/28/26 20:15	1
o-Terphenyl	119		70 - 130	02/19/26 17:21	02/28/26 20:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5010		101	mg/Kg			02/24/26 21:18	10

**Client Sample ID: BH 01**  
 Date Collected: 02/19/26 10:30  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-6**  
 Matrix: Solid

**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		02/24/26 12:38	02/26/26 18:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 18:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 18:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/24/26 12:38	02/26/26 18:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/24/26 12:38	02/26/26 18:16	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/24/26 12:38	02/26/26 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/24/26 12:38	02/26/26 18:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/24/26 12:38	02/26/26 18:16	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 01**

**Lab Sample ID: 890-9529-6**

Date Collected: 02/19/26 10:30

Matrix: Solid

Date Received: 02/19/26 15:16

**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			02/26/26 18:16	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			02/28/26 20:30	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		02/19/26 17:21	02/28/26 20:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 20:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/19/26 17:21	02/28/26 20:30	1
o-Terphenyl	117		70 - 130	02/19/26 17:21	02/28/26 20:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5620		99.4	mg/Kg			02/24/26 21:25	10

**Client Sample ID: BH 02**

**Lab Sample ID: 890-9529-7**

Date Collected: 02/19/26 10:40

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 18:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 18:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 18:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/26 12:38	02/26/26 18:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/26 12:38	02/26/26 18:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/26 12:38	02/26/26 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/24/26 12:38	02/26/26 18:36	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/24/26 12:38	02/26/26 18:36	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			02/26/26 18:36	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			02/28/26 20:45	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		02/19/26 17:21	02/28/26 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 20:45	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 02**

**Lab Sample ID: 890-9529-7**

Date Collected: 02/19/26 10:40

Matrix: Solid

Date Received: 02/19/26 15:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/19/26 17:21	02/28/26 20:45	1
o-Terphenyl	117		70 - 130			02/19/26 17:21	02/28/26 20:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4130		49.8	mg/Kg			02/24/26 21:32	5

**Client Sample ID: BH 02**

**Lab Sample ID: 890-9529-8**

Date Collected: 02/19/26 10:50

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 18:57	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 18:57	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 18:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/24/26 12:38	02/26/26 18:57	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/24/26 12:38	02/26/26 18:57	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/24/26 12:38	02/26/26 18:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			02/24/26 12:38	02/26/26 18:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/24/26 12:38	02/26/26 18:57	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			02/26/26 18:57	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			02/28/26 21:01	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		02/19/26 17:21	02/28/26 21:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 21:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/19/26 17:21	02/28/26 21:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			02/19/26 17:21	02/28/26 21:01	1
o-Terphenyl	115		70 - 130			02/19/26 17:21	02/28/26 21:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4050		49.6	mg/Kg			02/24/26 21:39	5

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 03**

**Lab Sample ID: 890-9529-9**

Date Collected: 02/19/26 11:00

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 19:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 19:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 19:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/24/26 12:38	02/26/26 19:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/26 12:38	02/26/26 19:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/24/26 12:38	02/26/26 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/24/26 12:38	02/26/26 19:17	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/24/26 12:38	02/26/26 19:17	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			02/26/26 19:17	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			02/28/26 21:15	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		02/19/26 17:21	02/28/26 21:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 21:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	02/19/26 17:21	02/28/26 21:15	1
o-Terphenyl	113		70 - 130	02/19/26 17:21	02/28/26 21:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2370		50.4	mg/Kg			02/24/26 21:45	5

**Client Sample ID: BH 03**

**Lab Sample ID: 890-9529-10**

Date Collected: 02/19/26 11:10

Matrix: Solid

Date Received: 02/19/26 15:16

**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		02/24/26 12:38	02/26/26 19:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 19:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 19:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/26 12:38	02/26/26 19:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/26 12:38	02/26/26 19:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/26 12:38	02/26/26 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/24/26 12:38	02/26/26 19:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/24/26 12:38	02/26/26 19:38	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 03**

**Lab Sample ID: 890-9529-10**

Date Collected: 02/19/26 11:10

Matrix: Solid

Date Received: 02/19/26 15:16

**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			02/26/26 19:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/28/26 21:31	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	<50.1	U	50.1	mg/Kg		02/19/26 17:21	02/28/26 21:31	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		02/19/26 17:21	02/28/26 21:31	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/19/26 17:21	02/28/26 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	02/19/26 17:21	02/28/26 21:31	1
o-Terphenyl	110		70 - 130	02/19/26 17:21	02/28/26 21:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		49.9	mg/Kg			02/24/26 21:52	5

## Surrogate Summary

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-68812-A-7-C MS	Matrix Spike	102	98
880-68812-A-7-D MSD	Matrix Spike Duplicate	82	90
890-9529-1	SS 01	123	106
890-9529-2	SS 02	102	103
890-9529-3	SS 03	104	102
890-9529-4	SS 04	110	102
890-9529-5	BH 01	108	103
890-9529-6	BH 01	102	100
890-9529-7	BH 02	109	105
890-9529-8	BH 02	114	100
890-9529-9	BH 03	107	103
890-9529-10	BH 03	109	100
LCS 880-132843/1-A	Lab Control Sample	105	98
LCSD 880-132843/2-A	Lab Control Sample Dup	96	98
MB 880-132843/5-A	Method Blank	101	98

**Surrogate Legend**  
BFB = 4-Bromofluorobenzene (Surr)  
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-68589-A-1-G MS	Matrix Spike	123	125
880-68589-A-1-H MSD	Matrix Spike Duplicate	124	130
890-9529-1	SS 01	109	109
890-9529-2	SS 02	110	114
890-9529-3	SS 03	115	117
890-9529-4	SS 04	123	124
890-9529-5	BH 01	117	119
890-9529-6	BH 01	113	117
890-9529-7	BH 02	113	117
890-9529-8	BH 02	110	115
890-9529-9	BH 03	109	113
890-9529-10	BH 03	108	110
LCS 880-132426/2-A	Lab Control Sample	116	92
LCSD 880-132426/3-A	Lab Control Sample Dup	116	95
MB 880-132426/1-A	Method Blank	179 S1+	180 S1+

**Surrogate Legend**  
1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

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### QC Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

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

Lab Sample ID: MB 880-132843/5-A  
 Matrix: Solid  
 Analysis Batch: 133054

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 132843

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/26 08:00	02/26/26 11:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/26 08:00	02/26/26 11:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/26 08:00	02/26/26 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/26/26 08:00	02/26/26 11:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/26 08:00	02/26/26 11:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/26/26 08:00	02/26/26 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/26/26 08:00	02/26/26 11:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/26/26 08:00	02/26/26 11:33	1

Lab Sample ID: LCS 880-132843/1-A  
 Matrix: Solid  
 Analysis Batch: 133054

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 132843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09520		mg/Kg		95	70 - 130
Toluene	0.100	0.09170		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.08815		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-132843/2-A  
 Matrix: Solid  
 Analysis Batch: 133054

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 132843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09543		mg/Kg		95	70 - 130	0	35
Toluene	0.100	0.09165		mg/Kg		92	70 - 130	0	35
Ethylbenzene	0.100	0.08955		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1036		mg/Kg		104	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-68812-A-7-C MS  
 Matrix: Solid  
 Analysis Batch: 133054

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 132843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.100	0.08186		mg/Kg		82	70 - 130
Toluene	<0.00200	U F1	0.100	0.07345		mg/Kg		73	70 - 130

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### QC Sample Results

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

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

Lab Sample ID: 880-68812-A-7-C MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 133054

Prep Batch: 132843

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U F1	0.100	0.06838	F1	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1596		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.08246		mg/Kg		82	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-68812-A-7-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 133054

Prep Batch: 132843

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U F1 F2	0.100	0.04658	F1 F2	mg/Kg		47	70 - 130	55	35
Toluene	<0.00200	U F1	0.100	0.05752	F1	mg/Kg		58	70 - 130	24	35
Ethylbenzene	<0.00200	U F1	0.100	0.06241	F1	mg/Kg		62	70 - 130	9	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1556		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07233		mg/Kg		72	70 - 130	13	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-132426/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 133324

Prep Batch: 132426

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 11:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 11:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/19/26 17:21	02/28/26 11:48	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	179	S1+	70 - 130	02/19/26 17:21	02/28/26 11:48	1
o-Terphenyl	180	S1+	70 - 130	02/19/26 17:21	02/28/26 11:48	1

Lab Sample ID: LCS 880-132426/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 133324

Prep Batch: 132426

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	852.7		mg/Kg		85	70 - 130

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### QC Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

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

**Lab Sample ID: LCS 880-132426/2-A**  
**Matrix: Solid**  
**Analysis Batch: 133324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 132426**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	92		70 - 130

**Lab Sample ID: LCSD 880-132426/3-A**  
**Matrix: Solid**  
**Analysis Batch: 133324**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 132426**

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1092		mg/Kg		109	70 - 130	0		20
Diesel Range Organics (Over C10-C28)	1000	864.8		mg/Kg		86	70 - 130	1		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	95		70 - 130

**Lab Sample ID: 880-68589-A-1-G MS**  
**Matrix: Solid**  
**Analysis Batch: 133324**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 132426**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1219		mg/Kg		122	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1014		mg/Kg		102	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	123		70 - 130
o-Terphenyl	125		70 - 130

**Lab Sample ID: 880-68589-A-1-H MSD**  
**Matrix: Solid**  
**Analysis Batch: 133324**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 132426**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1215		mg/Kg		122	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1031		mg/Kg		103	70 - 130	2	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	124		70 - 130
o-Terphenyl	130		70 - 130

### QC Sample Results

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

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

Lab Sample ID: MB 880-132591/1-A  
 Matrix: Solid  
 Analysis Batch: 132863

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			02/24/26 18:31	1

Lab Sample ID: LCS 880-132591/2-A  
 Matrix: Solid  
 Analysis Batch: 132863

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-132591/3-A  
 Matrix: Solid  
 Analysis Batch: 132863

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	243.0		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-9529-1 MS  
 Matrix: Solid  
 Analysis Batch: 132863

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	169		248	413.2		mg/Kg		98	90 - 110

Lab Sample ID: 890-9529-1 MSD  
 Matrix: Solid  
 Analysis Batch: 132863

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	169		248	412.4		mg/Kg		98	90 - 110	0	20

### QC Association Summary

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

#### GC VOA

##### Prep Batch: 132843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	5035	
890-9529-2	SS 02	Total/NA	Solid	5035	
890-9529-3	SS 03	Total/NA	Solid	5035	
890-9529-4	SS 04	Total/NA	Solid	5035	
890-9529-5	BH 01	Total/NA	Solid	5035	
890-9529-6	BH 01	Total/NA	Solid	5035	
890-9529-7	BH 02	Total/NA	Solid	5035	
890-9529-8	BH 02	Total/NA	Solid	5035	
890-9529-9	BH 03	Total/NA	Solid	5035	
890-9529-10	BH 03	Total/NA	Solid	5035	
MB 880-132843/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-132843/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-132843/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-68812-A-7-C MS	Matrix Spike	Total/NA	Solid	5035	
880-68812-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

##### Analysis Batch: 133054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	8021B	132843
890-9529-2	SS 02	Total/NA	Solid	8021B	132843
890-9529-3	SS 03	Total/NA	Solid	8021B	132843
890-9529-4	SS 04	Total/NA	Solid	8021B	132843
890-9529-5	BH 01	Total/NA	Solid	8021B	132843
890-9529-6	BH 01	Total/NA	Solid	8021B	132843
890-9529-7	BH 02	Total/NA	Solid	8021B	132843
890-9529-8	BH 02	Total/NA	Solid	8021B	132843
890-9529-9	BH 03	Total/NA	Solid	8021B	132843
890-9529-10	BH 03	Total/NA	Solid	8021B	132843
MB 880-132843/5-A	Method Blank	Total/NA	Solid	8021B	132843
LCS 880-132843/1-A	Lab Control Sample	Total/NA	Solid	8021B	132843
LCS 880-132843/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	132843
880-68812-A-7-C MS	Matrix Spike	Total/NA	Solid	8021B	132843
880-68812-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	132843

##### Analysis Batch: 133191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	Total BTEX	
890-9529-2	SS 02	Total/NA	Solid	Total BTEX	
890-9529-3	SS 03	Total/NA	Solid	Total BTEX	
890-9529-4	SS 04	Total/NA	Solid	Total BTEX	
890-9529-5	BH 01	Total/NA	Solid	Total BTEX	
890-9529-6	BH 01	Total/NA	Solid	Total BTEX	
890-9529-7	BH 02	Total/NA	Solid	Total BTEX	
890-9529-8	BH 02	Total/NA	Solid	Total BTEX	
890-9529-9	BH 03	Total/NA	Solid	Total BTEX	
890-9529-10	BH 03	Total/NA	Solid	Total BTEX	

## QC Association Summary

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

## GC Semi VOA

## Prep Batch: 132426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	8015NM Prep	
890-9529-2	SS 02	Total/NA	Solid	8015NM Prep	
890-9529-3	SS 03	Total/NA	Solid	8015NM Prep	
890-9529-4	SS 04	Total/NA	Solid	8015NM Prep	
890-9529-5	BH 01	Total/NA	Solid	8015NM Prep	
890-9529-6	BH 01	Total/NA	Solid	8015NM Prep	
890-9529-7	BH 02	Total/NA	Solid	8015NM Prep	
890-9529-8	BH 02	Total/NA	Solid	8015NM Prep	
890-9529-9	BH 03	Total/NA	Solid	8015NM Prep	
890-9529-10	BH 03	Total/NA	Solid	8015NM Prep	
MB 880-132426/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-132426/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-132426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-68589-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-68589-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 133324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	8015B NM	132426
890-9529-2	SS 02	Total/NA	Solid	8015B NM	132426
890-9529-3	SS 03	Total/NA	Solid	8015B NM	132426
890-9529-4	SS 04	Total/NA	Solid	8015B NM	132426
890-9529-5	BH 01	Total/NA	Solid	8015B NM	132426
890-9529-6	BH 01	Total/NA	Solid	8015B NM	132426
890-9529-7	BH 02	Total/NA	Solid	8015B NM	132426
890-9529-8	BH 02	Total/NA	Solid	8015B NM	132426
890-9529-9	BH 03	Total/NA	Solid	8015B NM	132426
890-9529-10	BH 03	Total/NA	Solid	8015B NM	132426
MB 880-132426/1-A	Method Blank	Total/NA	Solid	8015B NM	132426
LCS 880-132426/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	132426
LCS 880-132426/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	132426
880-68589-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	132426
880-68589-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	132426

## Analysis Batch: 133430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Total/NA	Solid	8015 NM	
890-9529-2	SS 02	Total/NA	Solid	8015 NM	
890-9529-3	SS 03	Total/NA	Solid	8015 NM	
890-9529-4	SS 04	Total/NA	Solid	8015 NM	
890-9529-5	BH 01	Total/NA	Solid	8015 NM	
890-9529-6	BH 01	Total/NA	Solid	8015 NM	
890-9529-7	BH 02	Total/NA	Solid	8015 NM	
890-9529-8	BH 02	Total/NA	Solid	8015 NM	
890-9529-9	BH 03	Total/NA	Solid	8015 NM	
890-9529-10	BH 03	Total/NA	Solid	8015 NM	

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### QC Association Summary

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

#### HPLC/IC

##### Leach Batch: 132591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Soluble	Solid	DI Leach	
890-9529-2	SS 02	Soluble	Solid	DI Leach	
890-9529-3	SS 03	Soluble	Solid	DI Leach	
890-9529-4	SS 04	Soluble	Solid	DI Leach	
890-9529-5	BH 01	Soluble	Solid	DI Leach	
890-9529-6	BH 01	Soluble	Solid	DI Leach	
890-9529-7	BH 02	Soluble	Solid	DI Leach	
890-9529-8	BH 02	Soluble	Solid	DI Leach	
890-9529-9	BH 03	Soluble	Solid	DI Leach	
890-9529-10	BH 03	Soluble	Solid	DI Leach	
MB 880-132591/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-132591/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-132591/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9529-1 MS	SS 01	Soluble	Solid	DI Leach	
890-9529-1 MSD	SS 01	Soluble	Solid	DI Leach	

##### Analysis Batch: 132863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9529-1	SS 01	Soluble	Solid	300.0	132591
890-9529-2	SS 02	Soluble	Solid	300.0	132591
890-9529-3	SS 03	Soluble	Solid	300.0	132591
890-9529-4	SS 04	Soluble	Solid	300.0	132591
890-9529-5	BH 01	Soluble	Solid	300.0	132591
890-9529-6	BH 01	Soluble	Solid	300.0	132591
890-9529-7	BH 02	Soluble	Solid	300.0	132591
890-9529-8	BH 02	Soluble	Solid	300.0	132591
890-9529-9	BH 03	Soluble	Solid	300.0	132591
890-9529-10	BH 03	Soluble	Solid	300.0	132591
MB 880-132591/1-A	Method Blank	Soluble	Solid	300.0	132591
LCS 880-132591/2-A	Lab Control Sample	Soluble	Solid	300.0	132591
LCSD 880-132591/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	132591
890-9529-1 MS	SS 01	Soluble	Solid	300.0	132591
890-9529-1 MSD	SS 01	Soluble	Solid	300.0	132591

### Lab Chronicle

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: SS 01**

**Lab Sample ID: 890-9529-1**

Date Collected: 02/19/26 12:00

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 16:34	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 16:34	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 19:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 19:16	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		1			132863	02/24/26 20:25	CS	EET MID

**Client Sample ID: SS 02**

**Lab Sample ID: 890-9529-2**

Date Collected: 02/19/26 12:02

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 16:54	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 16:54	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 19:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 19:31	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		1			132863	02/24/26 20:45	CS	EET MID

**Client Sample ID: SS 03**

**Lab Sample ID: 890-9529-3**

Date Collected: 02/19/26 12:04

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 17:15	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 17:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 19:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 19:46	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		1			132863	02/24/26 20:52	CS	EET MID

**Client Sample ID: SS 04**

**Lab Sample ID: 890-9529-4**

Date Collected: 02/19/26 12:06

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 17:35	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 17:35	SA	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: SS 04**  
 Date Collected: 02/19/26 12:06  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-4**  
 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			133430	02/28/26 20:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 20:01	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		1			132863	02/24/26 21:12	CS	EET MID

**Client Sample ID: BH 01**  
 Date Collected: 02/19/26 10:20  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-5**  
 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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 17:56	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 17:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 20:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 20:15	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		10			132863	02/24/26 21:18	CS	EET MID

**Client Sample ID: BH 01**  
 Date Collected: 02/19/26 10:30  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-6**  
 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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 18:16	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 18:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 20:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 20:30	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		10			132863	02/24/26 21:25	CS	EET MID

**Client Sample ID: BH 02**  
 Date Collected: 02/19/26 10:40  
 Date Received: 02/19/26 15:16

**Lab Sample ID: 890-9529-7**  
 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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 18:36	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 18:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 20:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 20:45	AJ	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
 SDG: 03C1558790

**Client Sample ID: BH 02**

**Lab Sample ID: 890-9529-7**

Date Collected: 02/19/26 10:40

Matrix: Solid

Date Received: 02/19/26 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		5			132863	02/24/26 21:32	CS	EET MID

**Client Sample ID: BH 02**

**Lab Sample ID: 890-9529-8**

Date Collected: 02/19/26 10:50

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 18:57	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 18:57	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 21:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 21:01	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		5			132863	02/24/26 21:39	CS	EET MID

**Client Sample ID: BH 03**

**Lab Sample ID: 890-9529-9**

Date Collected: 02/19/26 11:00

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 19:17	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 19:17	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 21:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 21:15	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		5			132863	02/24/26 21:45	CS	EET MID

**Client Sample ID: BH 03**

**Lab Sample ID: 890-9529-10**

Date Collected: 02/19/26 11:10

Matrix: Solid

Date Received: 02/19/26 15:16

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	132843	02/24/26 12:38	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	133054	02/26/26 19:38	SA	EET MID
Total/NA	Analysis	Total BTEX		1			133191	02/26/26 19:38	SA	EET MID
Total/NA	Analysis	8015 NM		1			133430	02/28/26 21:31	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10.00 mL	132426	02/19/26 17:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	133324	02/28/26 21:31	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	132591	02/20/26 13:39	SA	EET MID
Soluble	Analysis	300.0		5			132863	02/24/26 21:52	CS	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

**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: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

#### 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: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

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



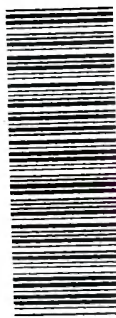
### Sample Summary

Client: Ensolum  
Project/Site: James Ranch Unit Legg Pond

Job ID: 890-9529-1  
SDG: 03C1558790

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-9529-1	SS 01	Solid	02/19/26 12:00	02/19/26 15:16	New Mexico
890-9529-2	SS 02	Solid	02/19/26 12:02	02/19/26 15:16	New Mexico
890-9529-3	SS 03	Solid	02/19/26 12:04	02/19/26 15:16	New Mexico
890-9529-4	SS 04	Solid	02/19/26 12:06	02/19/26 15:16	New Mexico
890-9529-5	BH 01	Solid	02/19/26 10:20	02/19/26 15:16	New Mexico
890-9529-6	BH 01	Solid	02/19/26 10:30	02/19/26 15:16	New Mexico
890-9529-7	BH 02	Solid	02/19/26 10:40	02/19/26 15:16	New Mexico
890-9529-8	BH 02	Solid	02/19/26 10:50	02/19/26 15:16	New Mexico
890-9529-9	BH 03	Solid	02/19/26 11:00	02/19/26 15:16	New Mexico
890-9529-10	BH 03	Solid	02/19/26 11:10	02/19/26 15:16	New Mexico

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890-9529 Chain of Custody

www.xenoco.com Page 1 of 1

# 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  
 Xenoco



Project Manager:	Jeremy Reich	Bill to: (if different)	Robert Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-937-3906	Email:	richard.kezlar@xencomobile.com

Project Name:	JRU <del>APR 2015</del> <b>PAID</b>	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558790	Due Date:	32.4817437, -103.9617649		
Sampler's Name:	Evan Roe	TAT starts the day received by the lab, if received by 4:30pm			
PO #:		Temp Blank:	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Wet Ice:	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>
<b>SAMPLE RECEIPT</b>		Thermometer ID:	111111		
Samples Received Intact:	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Correction Factor:	0.2		
Cooler Custody Seals:	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Temperature Reading:	5.8		
Sample Custody Seals:	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	Corrected Temperature:	5.6		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters			Sample Comments
							TPH	BTEX	Chlorides	
SS01	Soil	7-19-26	1200	Surface	G	1	✓	✓	✓	Incident ID: nAPP 2533525860
SS02			1202			1				CC: 1082851901
SS03			1204			1				GFCM: 48605000
SS04			1206			1				
BH 01			1020			1				
BH 01			1030	2		1				
BH 02			1040	Surface		1				
BH 02			1050	2		1				
BH 03			1100	Surface		1				
BH 03			1110	2		1				

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Evan R</i>	<i>Edzher</i>	15:16 2/19/2			

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**Eurofins Carlsbad**

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

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler:	N/A	Lab PM:	Kramer, Jessica	Carrier Tracking No(s):	N/A	COC No:	890-6539-1
Shipping/Receiving:		Phone:	N/A	E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	New Mexico	Page:	Page 1 of 2
Company:		Eurofins Environment Testing South Cent		Accreditations Required (See note):		NELAP - Texas		Job #:	890-9529-1
Address:		1211 W Florida Ave.		Due Date Requested:		2/25/2026		Preservation Codes:	
City:		Midland		TAT Requested (days):		N/A		<b>Analysis Requested</b>	
State Zip:		TX, 79701		PO #:		N/A		WOC #:	
Phone:		432-704-5440(Tel)		Project #:		89000110		SSOW#:	
Email:		N/A		Site:		N/A		Other:	
Project Name:		JRU Legs pond		Matrix (Metal, Semimetal, Organometal, BI=Trace, Ash)				N/A	
JRU Legs pond				Field Filtered Sample (Yes or No)		<input checked="" type="checkbox"/>		Perform MS/MSD (Yes or No)	
N/A				8015MOD_NM/8015NM_S_Prep(MOD) Full TPH		<input checked="" type="checkbox"/>		8015MOD_Calc	
N/A				8015MOD_Calc		<input checked="" type="checkbox"/>		300_ORGFM_28D/DI_LEACHChloride	
N/A				300_ORGFM_28D/DI_LEACHChloride		<input checked="" type="checkbox"/>		8021B/5035FP_Calc(MOD) BTEX	
N/A				8021B/5035FP_Calc(MOD) BTEX		<input checked="" type="checkbox"/>		Total_BTEX_GCV	
N/A				Total_BTEX_GCV		<input checked="" type="checkbox"/>		Total Number of containers	
N/A				Total Number of containers		<input checked="" type="checkbox"/>		Special Instructions/Note:	
N/A				Special Instructions/Note:					

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=Comp, BI=Trace, Ash)	Matrix	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACHChloride	8021B/5035FP_Calc(MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
SS 01 (890-9529-1)	2/19/26	12 00	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
SS 02 (890-9529-2)	2/19/26	12 02	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
SS 03 (890-9529-3)	2/19/26	12 04	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
SS 04 (890-9529-4)	2/19/26	12 06	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
BH 01 (890-9529-5)	2/19/26	10 20	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
BH 01 (890-9529-6)	2/19/26	10 30	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
BH 02 (890-9529-7)	2/19/26	10 40	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
BH 02 (890-9529-8)	2/19/26	10 50	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
BH 03 (890-9529-9)	2/19/26	11 00	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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/est/mark being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions 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 Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**

Unconfirmed:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Deliverable Requested I, II, III, IV, Other (specify): \_\_\_\_\_ Primary Deliverable Rank: 2

Special Instructions/QC Requirements: \_\_\_\_\_

Empty Kit Relinquished by:	Date	Time	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 2/19 1630	Company: _____	Received by: <i>[Signature]</i>
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____

Custody Seals Intact:  Yes  No      Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9529-1

SDG Number: 03C1558790

**Login Number: 9529**

**List Number: 1**

**Creator: Lopez, Abraham**

**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: 890-9529-1

SDG Number: 03C1558790

**Login Number: 9529**

**List Number: 2**

**Creator: Laing, Edmundo**

**List Source: Eurofins Midland**

**List Creation: 02/20/26 09:15 AM**

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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April 14, 2026

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT LEGG POND

Enclosed are the results of analyses for samples received by the laboratory on 04/09/26 14:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH04 0.5' (H262021-01)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 105 % 52.4-130

Surrogate: 1-Chlorooctadecane 105 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH04A 1' (H262021-02)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 102 % 52.4-130

Surrogate: 1-Chlorooctadecane 102 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH05 0.5' (H262021-03)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 108 % 52.4-130

Surrogate: 1-Chlorooctadecane 108 % 39.9-141

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\*=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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH05A 1' (H262021-04)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 110 % 52.4-130

Surrogate: 1-Chlorooctadecane 109 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: CS01 4' (H262021-05)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 101 % 52.4-130

Surrogate: 1-Chlorooctadecane 102 % 39.9-141

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\*=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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: CS02 4' (H262021-06)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 112 % 52.4-130

Surrogate: 1-Chlorooctadecane 111 % 39.9-141

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\*=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  
 JEREMY REICH  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	04/09/2026	Sampling Date:	04/07/2026
Reported:	04/14/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: CS03 4' (H262021-07)**

BTEX 8021B		mg/kg		Analyzed By: SK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2026	ND	2.19	109	2.00	2.03	
Toluene*	<0.050	0.050	04/10/2026	ND	2.04	102	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/10/2026	ND	1.97	98.6	2.00	2.56	
Total Xylenes*	<0.150	0.150	04/10/2026	ND	5.75	95.9	6.00	2.54	
Total BTEX	<0.300	0.300	04/10/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/10/2026	ND	448	112	400	3.64	

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	04/10/2026	ND	190	95.2	200	0.444	
DRO >C10-C28*	<10.0	10.0	04/10/2026	ND	192	96.0	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	04/10/2026	ND					

Surrogate: 1-Chlorooctane 111 % 52.4-130

Surrogate: 1-Chlorooctadecane 112 % 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.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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

Page 1 of 1

Company Name: Ensolum, LLC  
 Project Manager: Jeremy Reich  
 Address: 3122 National Parks Hwy  
 City: Carlsbad State: NM Zip: 88220  
 Phone #: 970-210-9803 Fax #:   
 Project #: 03C1558790 Project Owner: XTO Energy  
 Project Name: James Ranch Unit Legg Pond  
 Project Location: 32.4817437, -103.9617649  
 Sampler Name: Jacob Harrison

**BILL TO**  
 P.O. #:   
 Company: XTO Energy  
 Attn: Dale Woodall  
 Address: 3104 E Green St  
 City: Carlsbad State: NM Zip: 88220  
 Phone #:   
 Fax #:   
**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX							DATE	TIME	TPH (8015M/D)	Chloride (4500)	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL					
H2630021	B1004	0.5	6					X		4/7/26	1036	/	/	/	
	B1009A	1	6								1038	/	/	/	
	B1005	0.5	6								1100	/	/	/	
	B1008A	1	6								1102	/	/	/	
	C501	4	6								1200	/	/	/	
	C502	4	6								1222	/	/	/	
	C503	4	6								1224	/	/	/	

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Relinquished By: *MM*  
 Date: 4/4/26  
 Received By: *Guillermo Rodriguez*  
 Date: 4/9/26  
 Received By: *OS*

Delivered By: (Circle One) Observed Temp. °C: 1.0  
 Corrected Temp. °C: 1.1  
 Sample Condition: Cool Intact  Yes  No  
 CHECKED BY: (Initials) *AS*

Turnaround Time: Standard  Rush   
 Thermometer ID #140 Correction Factor +0.05C  
 Bacteria (only) Sample Condition: Cool Intact  Yes  No  
 Observed Temp. °C:   
 Corrected Temp. °C:   
 Verbal Result:  Yes  No Add'l Phone #:   
 All Results are emailed. Please provide Email address:   
 KK@ResolutionConsultantsLLC.com / tmorrissey@ensolum.com / kthomason@ensolum.com /   
 richard.kotzur@xxonohill.com / jharrison@ensolum.com  
 REMARKS:   
 CC: 1082851001 / GFCM: 48605000 / NAPP2533525860  
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

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May 21, 2026

CHRIS WRIGHT

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT LEGG POND

Enclosed are the results of analyses for samples received by the laboratory on 05/19/26 13:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH01 4' (H262821-01)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	2080	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 76.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 68.9 % 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH02 4' (H262821-02)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	10700	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 86.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.4 % 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: BH03 4' (H262821-03)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	13500	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 81.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.0 % 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: SW01 0-4' (H262821-04)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	9600	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 69.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 60.7 % 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: SW02 0-4' (H262821-05)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	2450	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 82.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.4 % 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:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: SW03 0-4' (H262821-06)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	1410	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 65.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 55.2 % 39.9-141

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received:	05/19/2026	Sampling Date:	05/18/2026
Reported:	05/21/2026	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558790	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.4817437-103.9617649		

**Sample ID: SW04 0-4' (H262821-07)**

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	05/20/2026	ND	2.13	106	2.00	0.961	
Toluene*	<0.050	0.050	05/20/2026	ND	2.03	102	2.00	1.06	
Ethylbenzene*	<0.050	0.050	05/20/2026	ND	1.97	98.6	2.00	0.287	
Total Xylenes*	<0.150	0.150	05/20/2026	ND	5.76	96.0	6.00	0.387	
Total BTEX	<0.300	0.300	05/20/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	1780	16.0	05/21/2026	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	05/20/2026	ND	201	100	200	6.20	
DRO >C10-C28*	<10.0	10.0	05/20/2026	ND	186	93.2	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	05/20/2026	ND					

Surrogate: 1-Chlorooctane 76.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 66.9 % 39.9-141

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Notes and Definitions

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

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





## APPENDIX F

### Spill Volume Calculations

<b>Location:</b>	<b>JRU Legg Pond</b>	
<b>Spill Date:</b>	<b>11/26/2025</b>	
<b>Incident #:</b>	<b>nAPP2533525860</b>	
<b>Area 1</b>		
Approximate Area =	716	sq. ft.
Average Saturation (or depth) of spill =	4	inches
Average Porosity Factor =	0.2	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	0	bbls
Total Produced Water =	8.5	bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	0	bbls
Total Produced Water =	8.5	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	0	bbls
Total Produced Water =	0	bbls

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

QUESTIONS

Action 530547

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 530547
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2533525860
Incident Name	NAPP2533525860 JAMES RANCH UNIT LEGG POND @ E-14-21S-29E
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	James Ranch Unit Legg Pond
Date Release Discovered	11/26/2025
Surface Owner	State

<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   Other (Specify)   Produced Water   Released: 9 BBL   Recovered: 0 BBL   Lost: 9 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)	A total of 8.5 bbls of produced water was released, due to a failed gauge.

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QUESTIONS, Page 2

Action 530547

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 530547
	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>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 12/01/2025
--	--

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QUESTIONS, Page 3

Action 530547

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 530547
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**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)	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.

**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	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 530547

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 530547
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Initial C-141 approved. A remediation plan or remediation closure report is due to the OCD by 2/24/2026.	12/2/2025

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QUESTIONS

Action 587813

**QUESTIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2533525860
Incident Name	NAPP2533525860 JAMES RANCH UNIT LEGG POND @ E-14-21S-29E
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	JAMES RANCH UNIT LEGG POND
Date Release Discovered	11/26/2025
Surface Owner	State

<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   Other (Specify)   Produced Water   Released: 9 BBL   Recovered: 0 BBL   Lost: 9 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)	A total of 8.5 bbls of produced water was released, due to a failed gauge.

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QUESTIONS, Page 2

Action 587813

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 05/23/2026
--	--

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QUESTIONS, Page 3

Action 587813

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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 ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	13500
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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	04/03/2026
On what date will (or did) the final sampling or liner inspection occur	05/18/2026
On what date will (or was) the remediation complete(d)	07/01/2026
What is the estimated surface area (in square feet) that will be reclaimed	910
What is the estimated volume (in cubic yards) that will be reclaimed	135
What is the estimated surface area (in square feet) that will be remediated	910
What is the estimated volume (in cubic yards) that will be remediated	135
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 587813

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 05/23/2026
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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.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 587813

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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 587813

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>570351</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>04/07/2026</b>
What was the (estimated) number of samples that were to be gathered	<b>4</b>
What was the sampling surface area in square feet	<b>800</b>

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	<b>No</b>
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CONDITIONS

Action 587813

**CONDITIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 587813
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions:	6/1/2026
scwells	1) Under the Site Characterization portion of the C-141 application, to the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)," was answered, "Greater than 5 (mi.)." According to the National Wetlands Inventory Mapper, the nearest freshwater emergent wetland (aka playa) is located between ½ and 1 mile to the east.	6/1/2026
scwells	2) Under the Site Characterization portion of the C-141 application, to the question, "What is the minimum distance, between the closest lateral extents of the release and the following surface areas: A wetland," was answered, "Between ½ and 1 (mi.)." According to the National Wetlands Inventory Mapper, the nearest wetland is a wetland riverine located ~765 feet north of the release. The distances to both of these site receptors must be updated in the C-141 during next report submission.	6/1/2026
scwells	3) OCD believes the volume of material released has been undercalculated due to the depth of the contamination; BH02 at 2' has chlorides of 4,050 mg/kg and increases to 13,500 mg/kg at 4'. This must be updated in the C-141 application under Nature and Volume of Release during next report submission, to accurately reflect the volume of produced water that was released.	6/1/2026
scwells	4) Should any of the karst surveys show void anomalies present in the survey area, then Closure Criteria must be treated as if it occurred where depth to ground water is less than 50 feet (see Table I of 19.15.29.12 NMAC).	6/1/2026
scwells	5) OCD requires that any base or wall that is exposed during excavation, even due to benching and sloping, have samples collected pursuant to 19.15.29 NMAC. Ensure sidewall samples are collected between the varying depths of excavation and clearly show these on the Figures in your closure report.	6/1/2026
scwells	Submit a complete and accurate report to OCD by 8/31/26.	6/1/2026