



February 20, 2026

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
JRJ Legg Pond  
Incident Number nAPP2520456406  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document the findings of a liner integrity inspection, delineation, and excavation activities completed at the JRJ Legg Pond (Site) following a release of produced water within a lined containment. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing assessment, delineation, and excavation activities that have occurred and requesting no further action for Incident Number nAPP2520456406.

### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site was reported to be located in Unit C, Section 27, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.36695°, -103.869089°); however, after a review of internal documents, including photos, the release was found to be located south of the reported location in Units F and G, Section 27, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.366422°, -103.869186°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 22, 2025, power failure caused a pump to malfunction resulting in the release of approximately 118 barrels (bbls) of produced water into a temporary lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids and all fluids were recovered. The lined containment was cleaned of all debris and power washed to remove any residual fluids. The pump was repaired and returned to service. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) on July 23, 2025, and subsequently submitted an Initial C-141 Application (C-141) on July 25, 2025. The release was assigned Incident Number nAPP2520456406.

### **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.

XTO Energy, Inc.  
Closure Request  
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Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a New Mexico Office of the State Engineer (OSE) permitted well (C-03015), located approximately 0.59 miles north of the Site. The monitoring well was drilled on January 25, 2004, to a total depth of 1,316 feet bgs. The water bearing stratifications were identified at depths between 362 feet and 385 feet bgs. All wells used for depth to groundwater determination are presented in Figure 1. The point of diversion summary is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash located approximately 3,008 feet south 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 underlain by potentially unstable geology (medium potential karst designation area).

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## LINER INTEGRITY INSPECTION ACTIVITIES

A variance request to the 48-hour advanced notice requirement was submitted via to the NMOCD on July 24, 2025 and was approved the same day. On July 25, 2025, Ensolum personnel visited the Site to conduct an inspection of the lined containment. The lined containment had equipment consisting of water storage units, frac tanks, transfer pumps, and associated piping. The lined containment inspection was completed immediately following liner cleaning and pressure washing activities, which allowed pooling to be observed in the photographic documentation. Full view of the lined containment floor and walls was achieved during the lined containment inspection but is difficult to see in the photographs due to reflections from the pooling. Sandbags are seen in the corners of the containment which assist in weighing down the liner. Inspection results indicated that the lined containment contained a small tear on the liner floor. Based on the inspection results, delineation soil sampling activities were warranted.

## DELINEATION SOIL SAMPLING ACTIVITIES

On August 8, 2025, Ensolum personnel were at the Site to conduct delineation activities. Five delineation soil samples (SS01 through SS05) were collected outside the lined containment at a depth of 0.5 feet bgs to confirm the release remained within the lined containment walls. On August 18, 2025, Ensolum returned to the Site to conduct vertical delineation at the location of the tear identified during the liner inspection. One borehole (BH01) was advanced via hand auger to a terminal depth of 3 feet bgs. Discrete delineation soil samples were collected from the borehole at depths ranging from 0.5 feet to 3 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations of the soil samples collected from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix B. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on

XTO Energy, Inc.  
Closure Request  
JRU Legg Pond

Figure 2. Following delineation activities, the liner was patched in the area where BH01 was advanced. Photographic documentation is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the Site location, date, time, sampler name, method of analysis, and immediately placed on ice. Due to similar field screening results for the samples collected at 2 feet (BH01B) and 3 feet bgs, the sample collected at 3 feet bgs was placed on hold pending results of BH01B. 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 contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA 300.0 or Standard Method SM4500.

Laboratory analytical results from delineation soil samples SS01 through SS05 indicated all COCs were in compliance with Site Closure Criteria, successfully defining the lateral extent of the release. Laboratory analytical results for delineation borehole BH01, collected at depths of 0.5 feet and 1-foot bgs, indicated TPH and/or chloride concentrations exceeded Closure Criteria, warranting additional remedial activities. Soil sample BH01B collected at 2 feet bgs was in compliance with Closure Criteria, which successfully defines the vertical extent of the release and, voided the analysis of the soil sample that was on hold in borehole BH01 at 3 feet bgs.

## EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

On January 13, 2026, Ensolum personnel returned to the Site to oversee excavation activities to remove soil impacts. The edge of the temporary lined containment was moved inwards so access to the area of borehole BH01 could be achieved. An area of approximately 200 square feet was excavated with hand tools and heavy equipment to approximately 2 feet bgs, in the vicinity of delineation borehole BH01. Following excavation activities, 5-point composite confirmation soil samples were collected from the floor and sidewall of the excavation. Confirmation soil sample FS01 was collected from the floor of the excavation at 2 feet bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from ground surface to 2 feet bgs. The soil samples were screened for VOCs and chloride as previously described. The confirmation soil samples were handled in the same manner as described above and transported to Cardinal for analysis of the same COCs as previously mentioned. The excavation extent and soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. Photographic documentation is included in Appendix B.

The final excavation extent measured approximately 200 square feet. A total of approximately 15 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. The excavation has been backfilled with material purchased locally and the area was recontoured to match pre-existing Site conditions.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the confirmation floor and sidewall soil samples indicated all COC concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized on the attached Table 1, and the complete laboratory analytical reports are included in Appendix D.

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**CLOSURE REQUEST**

Liner integrity inspection and delineation activities were conducted at the Site to address the July 22, 2025, release of produced water. Laboratory analytical results for all confirmation soil samples collected from the final excavation extent indicated COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation was backfilled with material purchased locally, the Site was recontoured to match pre-existing Site conditions, and the liner was moved back to its original position.

Excavation of soil has mitigated impacts to soil that exceeded Closure Criteria at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2520456406.

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

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Benjamin J. Belill  
Senior Geologist

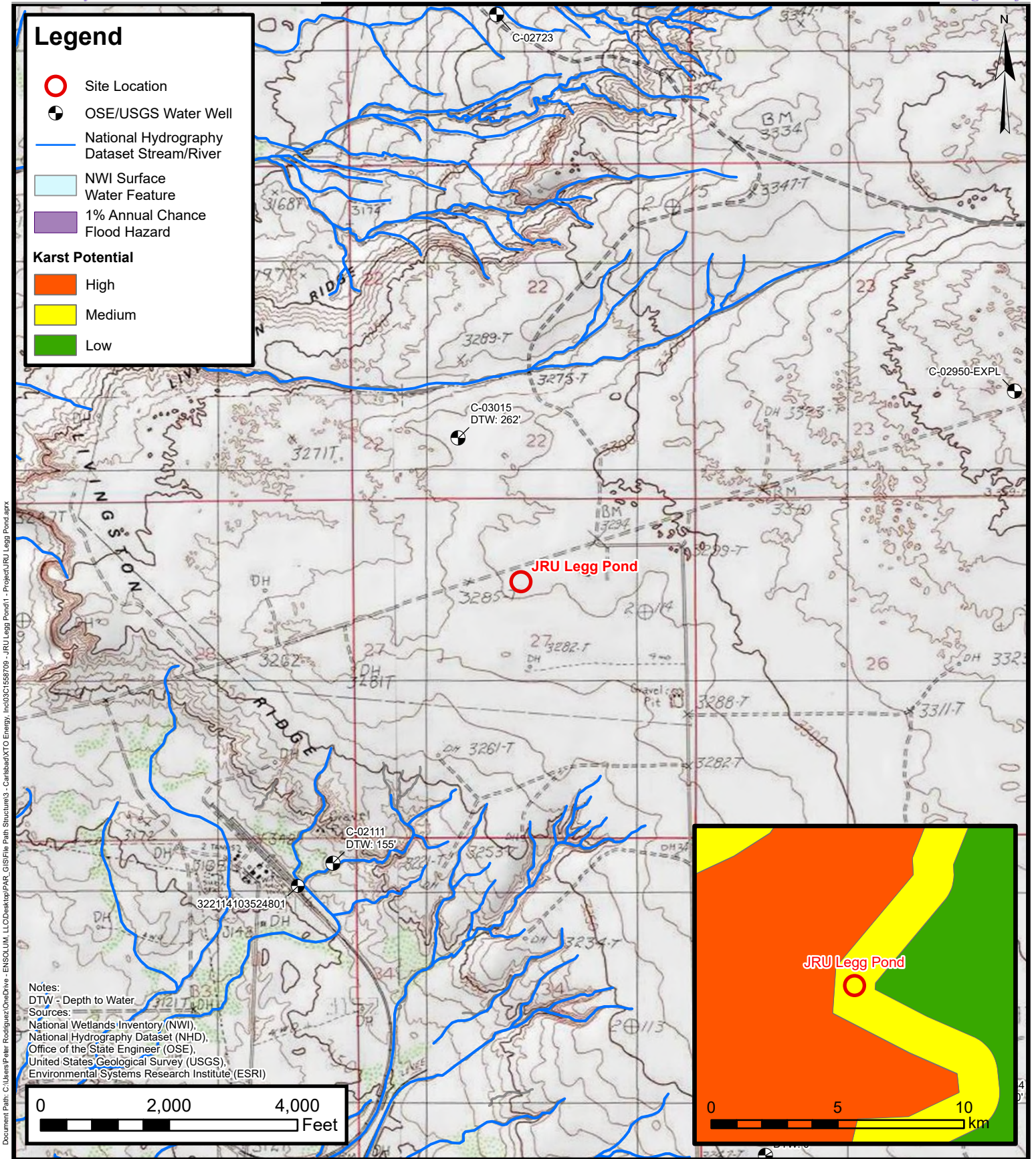
cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM

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 Referenced Well Records
- Appendix B Lithologic / Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Correspondence



FIGURES



Document Path: C:\Users\Paolo.Rodriguez\OneDrive - ENSOLUM, L.L.C\Desktop\PAR\_GIS\Map\Path Structure3 - Carlsbad\XTO Energy - Inc\3021582709 - JRU Legg Pond1 - Project\JRU Legg Pond.aprx



**Site Receptor Map**

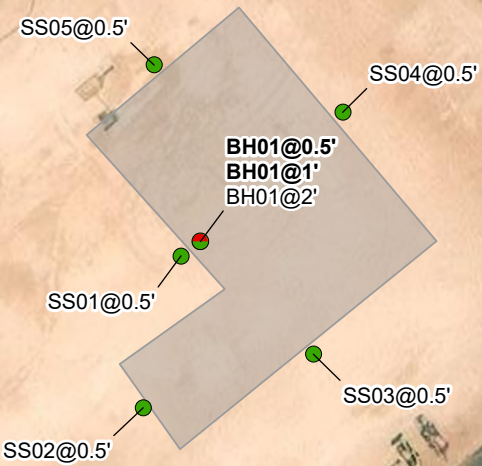
XTO Energy, Inc  
JRU Legg Pond  
Incident Number: nAPP2520456406  
Units F and G, Sec 27, T22S, R30E  
Eddy County, New Mexico

**FIGURE**

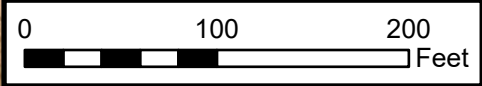
**1**

### Legend

- Delineation Soil Sample Compliant with Closure Criteria
- Delineation Soil Sample with Some Concentrations Exceeding Site Closure Criteria
- Lined Containment Area



Note:  
 Sample ID @ Depth Below Ground Surface  
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.



Sources  
 Environmental Systems Research Institute (ESRI)



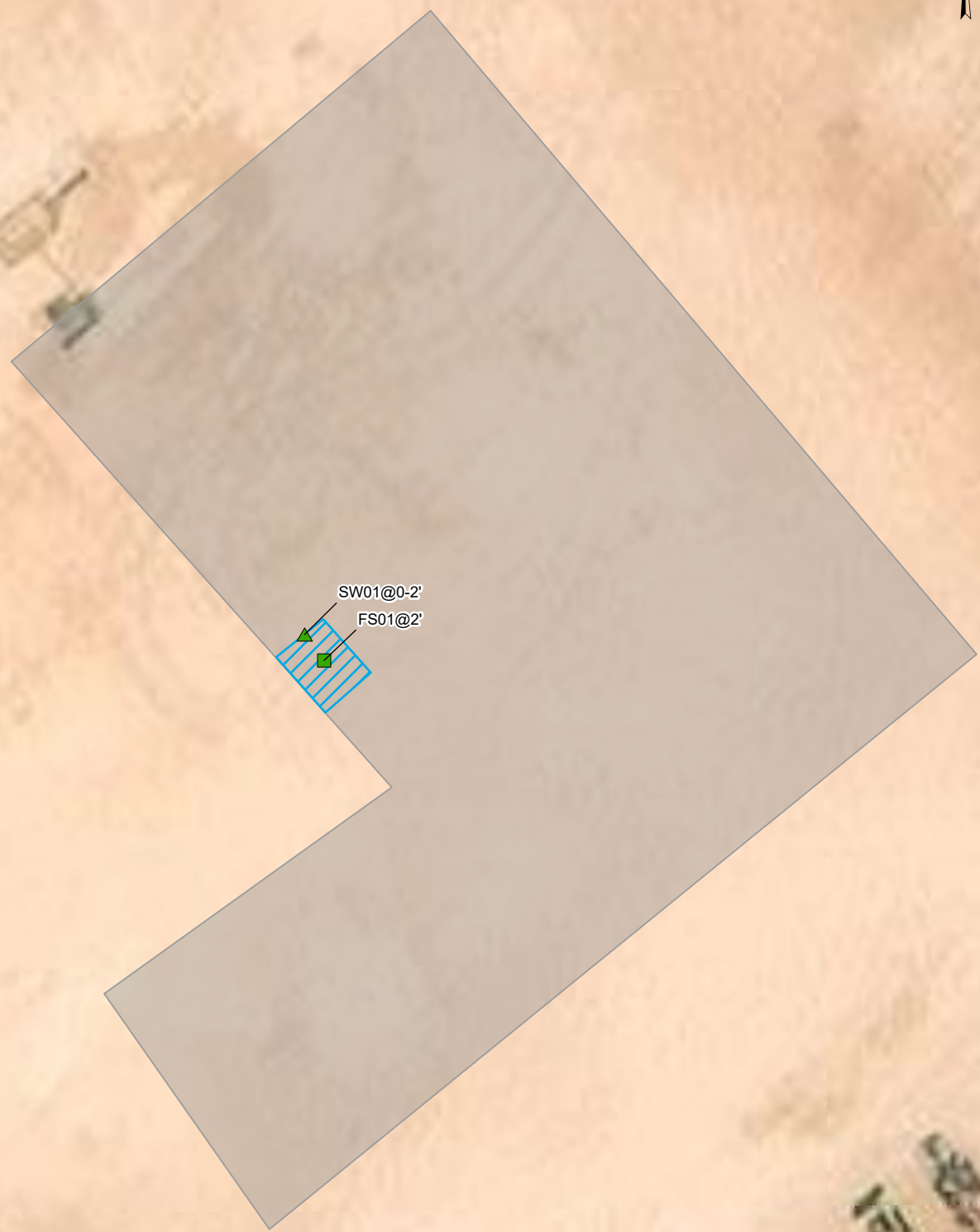
## Delineation Soil Sample Locations

XTO Energy, Inc  
 JRU Legg Pond  
 Incident Number: nAPP2520456406  
 Units F and G, Sec 27, T22S, R30E  
 Eddy County, New Mexico

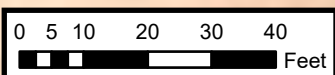
FIGURE  
**2**

### Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- Confirmation Sidewall Sample in Compliance with Closure Criteria
- Lined Containment Area
- Excavation Extent



Notes:  
 Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



## Confirmation Soil Sample Locations

XTO Energy, Inc  
 JRU Legg Pond  
 Incident Number: nAPP2520456406  
 Units F and G, Sec 27, T22S, R30E  
 Eddy County, New Mexico

**FIGURE**  
**3**



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
JRU 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>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>100</b>	<b>600</b>
<b>Delineation Soil Samples</b>										
SS01	08/08/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	437
SS02	08/08/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	468
SS03	08/08/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	41.9
SS04	08/08/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	190
SS05	08/08/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	78.0
BH01	08/18/2025	0.5	<0.050	<0.300	<10.0	1,380	300	1,380	<b>1,680</b>	<b>976</b>
BH01A	08/18/2025	1	<0.050	<0.300	<10.0	163	38.4	163	<b>201</b>	288
BH01B	08/18/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
<b>Confirmation Floor Soil Samples</b>										
FS01	01/13/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
<b>Confirmation Sidewall Soil Samples</b>										
SW01	01/13/2026	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



## APPENDIX A


### Referenced Well Records

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# Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
C 03015	NW	SE	SW	22	22S	30E	606099.0	3582353.0 *		

\* UTM location was derived from PLSS - see Help

<b>Driller License:</b>	331	<b>Driller Company:</b>	SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.								
<b>Driller Name:</b>	BILL BRUNSON										
<b>Drill Start Date:</b>	2004-01-21	<b>Drill Finish Date:</b>	2004-01-25							<b>Plug Date:</b>	
<b>Log File Date:</b>	2004-03-04	<b>PCW Rcv Date:</b>								<b>Source:</b>	Artesian
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>								<b>Estimated Yield:</b>	
<b>Casing Size:</b>	6.00	<b>Depth Well:</b>	1316							<b>Depth Water:</b>	262

## Water Bearing Stratifications:

Top	Bottom	Description
362	385	Other/Unknown

## Casing Perforations:

Top	Bottom
261	386

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

7/23/25 3:41 PM MST

Point of Diversion Summary


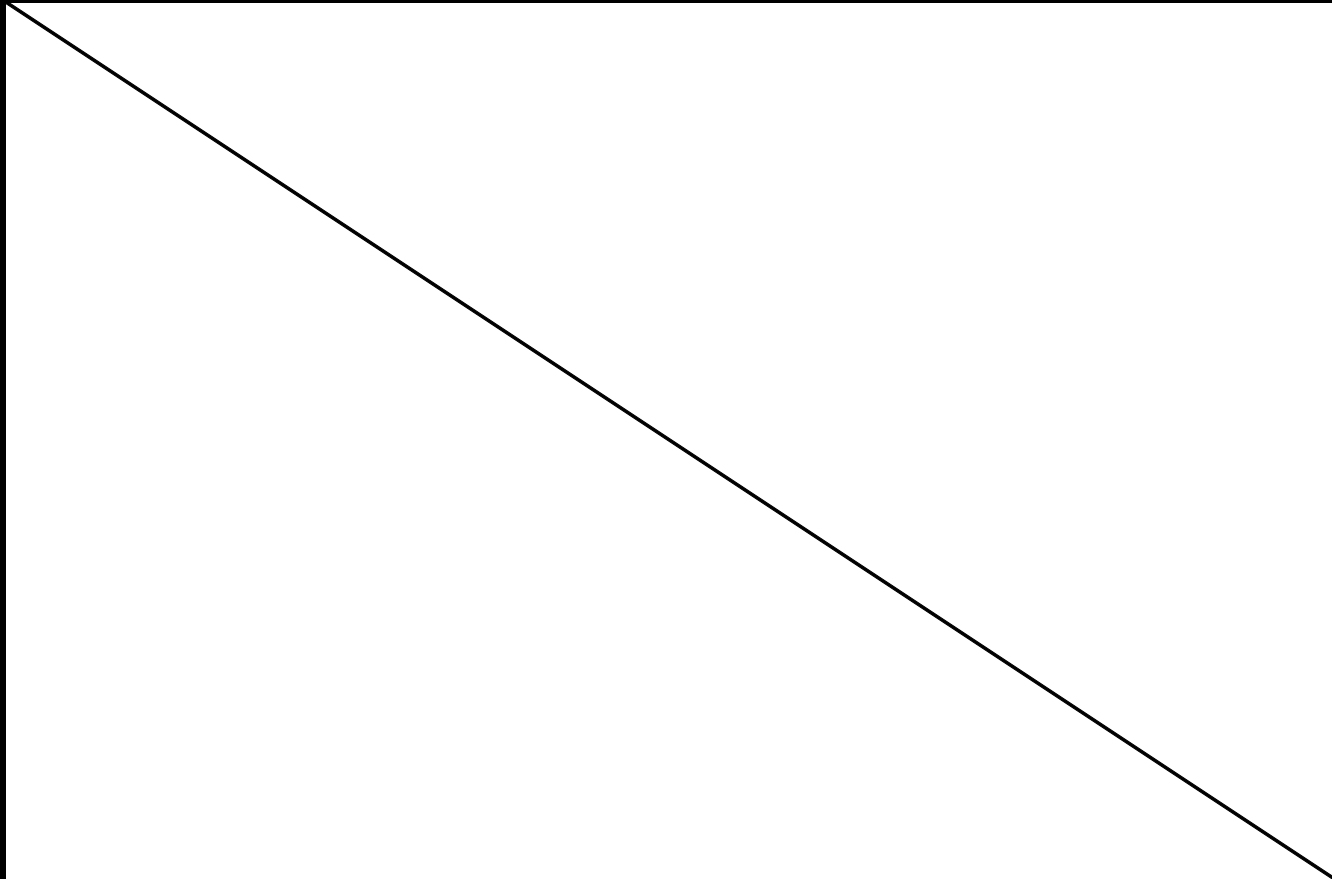
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## APPENDIX B

### Lithologic / Soil Sampling Log

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					Sample Name: BH01		Date: 8/18/2025	
					Site Name: JRU Legg Pond			
					Incident Number: nAPP2520456406			
					Job Number: 03C1558709			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: JH		Method: Hand Auger	
Coordinates: 32.366322, -103.869169					Hole Diameter: 4"		Total Depth: 3'	
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% chloride correction factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1,495	0.0	N	BH01	0.5	0	CCHE	(0-2') CALICHE, tan, fine grained, poorly sorted
D	246	0.0	N	BH01A	1	1		
D	246	0.0	N	BH01B	2	2	SP	
D	246	0.0	N		3	3		
Total Depth @ 3 feet bgs								
								



## APPENDIX C

### Photographic Log

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**Photographic Log**

XTO Energy, Inc  
JRU Legg Pond  
nAPP2520456406



8/8/25 10:29  
32.36652256 -103.86942114  
164° S



8/8/25 09:06  
32.36672699 -103.86912159  
164° S

Photograph: 5 Date: 8/8/2025  
Description: Delineation activities; near SS05  
View: Southwest

Photograph: 6 Date: 8/8/2025  
Description: Delineation activities; near SS04  
View: Southeast



Carlsbad NM  
301°NW (T) 32°21'58"N, 103°52'8"W ±8m ▲ 1005m

BH01 to 3' JRU Legg Pond  
18 Aug 2025, 10:53:10



Carlsbad NM  
320°NW (T) 32°21'58"N, 103°52'8"W ±6m ▲ 1005m

Liner patch at BH01 JRU Legg Pond  
18 Aug 2025, 11:08:52

Photograph: 7 Date: 8/18/2025  
Description: Delineation activities; near BH01  
View: Northwest

Photograph: 8 Date: 8/18/2025  
Description: Delineation patching; near BH01  
View: Northwest





## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tracy Hillard  
Ensolum

601 N. Marienfeld St.  
Suite 400

Midland, Texas 79701

Generated 8/12/2025 8:18:48 PM

## JOB DESCRIPTION

JRU Legg pond -SPILLS  
03C1558707

## JOB NUMBER

890-8611-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220



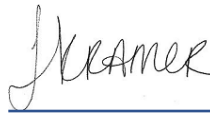
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
8/12/2025 8:18:48 PM

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: JRU Legg pond -SPILLS

Laboratory Job ID: 890-8611-1  
SDG: 03C1558707

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## Definitions/Glossary

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
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: JRU Legg pond -SPILLS

Job ID: 890-8611-1

**Job ID: 890-8611-1**

**Eurofins Carlsbad**

## Job Narrative 890-8611-1

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

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

### Receipt

The samples were received on 8/8/2025 4:57 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 5.2°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-8611-1), SS02 (890-8611-2), SS03 (890-8611-3), SS04 (890-8611-4) and SS05 (890-8611-5).

### GC VOA

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

### Diesel Range Organics

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-116429 and analytical batch 880-116451 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-60970-A-34-B MDLV). 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.

Eurofins Carlsbad



### Client Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS01**

**Lab Sample ID: 890-8611-1**

Date Collected: 08/08/25 13:20

Matrix: Solid

Date Received: 08/08/25 16:57

**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		08/12/25 10:00	08/12/25 20:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 20:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/25 10:00	08/12/25 20:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 20:05	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			08/12/25 13:06	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		08/12/25 07:43	08/12/25 13:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 13:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/12/25 07:43	08/12/25 13:06	1
o-Terphenyl	79		70 - 130	08/12/25 07:43	08/12/25 13:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	437		10.0	mg/Kg			08/12/25 11:15	1

**Client Sample ID: SS02**

**Lab Sample ID: 890-8611-2**

Date Collected: 08/08/25 13:25

Matrix: Solid

Date Received: 08/08/25 16:57

**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		08/12/25 10:00	08/12/25 20:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 20:26	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/25 10:00	08/12/25 20:26	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS02**

**Lab Sample ID: 890-8611-2**

Date Collected: 08/08/25 13:25

Matrix: Solid

Date Received: 08/08/25 16:57

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 20:26	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			08/12/25 09:30	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		08/12/25 07:43	08/12/25 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 09:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/12/25 07:43	08/12/25 09:30	1
o-Terphenyl	84		70 - 130	08/12/25 07:43	08/12/25 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	468		9.98	mg/Kg			08/12/25 11:32	1

**Client Sample ID: SS03**

**Lab Sample ID: 890-8611-3**

Date Collected: 08/08/25 13:45

Matrix: Solid

Date Received: 08/08/25 16:57

**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		08/12/25 10:00	08/12/25 20:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 20:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 20:46	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/12/25 10:00	08/12/25 20:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 20:46	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			08/12/25 10:16	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	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS03**

**Lab Sample ID: 890-8611-3**

Date Collected: 08/08/25 13:45

Matrix: Solid

Date Received: 08/08/25 16:57

**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)	<49.9	U	49.9	mg/Kg		08/12/25 07:43	08/12/25 10:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			08/12/25 07:43	08/12/25 10:16	1
o-Terphenyl	79		70 - 130			08/12/25 07:43	08/12/25 10:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		10.1	mg/Kg			08/12/25 11:38	1

**Client Sample ID: SS04**

**Lab Sample ID: 890-8611-4**

Date Collected: 08/08/25 14:45

Matrix: Solid

Date Received: 08/08/25 16:57

**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		08/11/25 12:12	08/12/25 18:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/11/25 12:12	08/12/25 18:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/11/25 12:12	08/12/25 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			08/11/25 12:12	08/12/25 18:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130			08/11/25 12:12	08/12/25 18:09	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			08/12/25 18:09	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			08/12/25 10:32	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		08/12/25 07:43	08/12/25 10:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 10:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 10:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			08/12/25 07:43	08/12/25 10:32	1
o-Terphenyl	76		70 - 130			08/12/25 07:43	08/12/25 10:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.1	mg/Kg			08/12/25 11:43	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS05**

**Lab Sample ID: 890-8611-5**

Date Collected: 08/08/25 11:05

Matrix: Solid

Date Received: 08/08/25 16:57

**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		08/11/25 12:12	08/12/25 18:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 18:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 18:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/11/25 12:12	08/12/25 18:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/11/25 12:12	08/12/25 18:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/12/25 18:30	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			08/12/25 10:47	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		08/12/25 07:43	08/12/25 10:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 10:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/12/25 07:43	08/12/25 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/12/25 07:43	08/12/25 10:47	1
o-Terphenyl	79		70 - 130	08/12/25 07:43	08/12/25 10:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		10.1	mg/Kg			08/12/25 11:49	1

## Surrogate Summary

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

## 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)
880-61320-A-1-B MS	Matrix Spike	111	95
880-61320-A-1-C MSD	Matrix Spike Duplicate	111	93
890-8611-1	SS01	105	95
890-8611-2	SS02	105	95
890-8611-3	SS03	105	95
890-8611-4	SS04	110	90
890-8611-5	SS05	106	91
890-8615-A-1-B MS	Matrix Spike	103	101
890-8615-A-1-C MSD	Matrix Spike Duplicate	105	99
LCS 880-116368/1-A	Lab Control Sample	113	91
LCS 880-116460/1-A	Lab Control Sample	101	101
LCSD 880-116368/2-A	Lab Control Sample Dup	110	92
LCSD 880-116460/2-A	Lab Control Sample Dup	103	99
MB 880-116368/5-A	Method Blank	107	91
MB 880-116460/5-A	Method Blank	105	91

**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)
890-8607-A-1-C MS	Matrix Spike	83	76
890-8607-A-1-D MSD	Matrix Spike Duplicate	101	79
890-8611-1	SS01	94	79
890-8611-2	SS02	87	84
890-8611-2 MS	SS02	94	82
890-8611-2 MSD	SS02	94	82
890-8611-3	SS03	82	79
890-8611-4	SS04	80	76
890-8611-5	SS05	82	79
LCS 880-116428/2-A	Lab Control Sample	107	117
LCS 880-116429/2-A	Lab Control Sample	121	124
LCSD 880-116428/3-A	Lab Control Sample Dup	106	117
LCSD 880-116429/3-A	Lab Control Sample Dup	121	124
MB 880-116428/1-A	Method Blank	116	118
MB 880-116429/1-A	Method Blank	134 S1+	127

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

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### QC Sample Results

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

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

Lab Sample ID: MB 880-116368/5-A  
Matrix: Solid  
Analysis Batch: 116441

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 116368

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/11/25 12:12	08/12/25 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/11/25 12:12	08/12/25 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/11/25 12:12	08/12/25 11:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/11/25 12:12	08/12/25 11:26	1

Lab Sample ID: LCS 880-116368/1-A  
Matrix: Solid  
Analysis Batch: 116441

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 116368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09665		mg/Kg		97	70 - 130
Toluene	0.100	0.09577		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1100		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2157		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1064		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-116368/2-A  
Matrix: Solid  
Analysis Batch: 116441

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 116368

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	5	35
Toluene	0.100	0.09630		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2138		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-61320-A-1-B MS  
Matrix: Solid  
Analysis Batch: 116441

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 116368

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09630		mg/Kg		96	70 - 130
Toluene	<0.00200	U	0.100	0.08928		mg/Kg		89	70 - 130

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### QC Sample Results

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

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

Lab Sample ID: 880-61320-A-1-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116441

Prep Batch: 116368

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U	0.100	0.09947		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.100	0.09677		mg/Kg		97	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-61320-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116441

Prep Batch: 116368

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.09345		mg/Kg		93	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08986		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.09950		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1940		mg/Kg		97	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.09591		mg/Kg		96	70 - 130	1	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-116460/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116439

Prep Batch: 116460

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/12/25 10:00	08/12/25 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/12/25 10:00	08/12/25 12:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	105		70 - 130	08/12/25 10:00	08/12/25 12:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/12/25 10:00	08/12/25 12:23	1

Lab Sample ID: LCS 880-116460/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116439

Prep Batch: 116460

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.08765		mg/Kg		88	70 - 130
Toluene	0.100	0.08528		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08916		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1774		mg/Kg		89	70 - 130

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### QC Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

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

Lab Sample ID: LCS 880-116460/1-A  
 Matrix: Solid  
 Analysis Batch: 116439

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 116460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.07338		mg/Kg		73	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-116460/2-A  
 Matrix: Solid  
 Analysis Batch: 116439

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 116460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09355		mg/Kg		94	70 - 130	7	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	6	35
Ethylbenzene	0.100	0.09523		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1901		mg/Kg		95	70 - 130	7	35
o-Xylene	0.100	0.07806		mg/Kg		78	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-8615-A-1-B MS  
 Matrix: Solid  
 Analysis Batch: 116439

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 116460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08807		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.100	0.08626		mg/Kg		86	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09033		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1795		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.07403		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-8615-A-1-C MSD  
 Matrix: Solid  
 Analysis Batch: 116439

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 116460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08346		mg/Kg		83	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08193		mg/Kg		82	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.08636		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1723		mg/Kg		86	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.07113		mg/Kg		71	70 - 130	4	35

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### QC Sample Results

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

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

Lab Sample ID: 890-8615-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 116439

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 116460

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-116428/1-A  
Matrix: Solid  
Analysis Batch: 116449

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 116428

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		08/12/25 07:43	08/12/25 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/25 07:43	08/12/25 04:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	116		70 - 130	08/12/25 07:43	08/12/25 04:36	1
o-Terphenyl	118		70 - 130	08/12/25 07:43	08/12/25 04:36	1

Lab Sample ID: LCS 880-116428/2-A  
Matrix: Solid  
Analysis Batch: 116449

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 116428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	107		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-116428/3-A  
Matrix: Solid  
Analysis Batch: 116449

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 116428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	1	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	106		70 - 130
o-Terphenyl	117		70 - 130

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### QC Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

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

**Lab Sample ID: LCS 880-116429/2-A**  
**Matrix: Solid**  
**Analysis Batch: 116451**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 116429**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

**Lab Sample ID: LCSD 880-116429/3-A**  
**Matrix: Solid**  
**Analysis Batch: 116451**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 116429**

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1109		mg/Kg		111	70 - 130	1		20
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130	0		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	124		70 - 130

**Lab Sample ID: 890-8607-A-1-C MS**  
**Matrix: Solid**  
**Analysis Batch: 116451**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 116429**

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	996	831.9		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.5		mg/Kg		73	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	83		70 - 130
o-Terphenyl	76		70 - 130

**Lab Sample ID: 890-8607-A-1-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 116451**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 116429**

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	996	844.4		mg/Kg		85	70 - 130	2		20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	749.9		mg/Kg		73	70 - 130	0		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

### QC Sample Results

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

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

Lab Sample ID: MB 880-116440/1-A  
 Matrix: Solid  
 Analysis Batch: 116454

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			08/12/25 09:07	1

Lab Sample ID: LCS 880-116440/2-A  
 Matrix: Solid  
 Analysis Batch: 116454

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.1		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-116440/3-A  
 Matrix: Solid  
 Analysis Batch: 116454

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	228.4		mg/Kg		91	90 - 110	2	20

Lab Sample ID: 890-8610-A-4-D MS  
 Matrix: Solid  
 Analysis Batch: 116454

Client Sample ID: Matrix Spike  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	252	240.4		mg/Kg		92	90 - 110

Lab Sample ID: 890-8610-A-4-E MSD  
 Matrix: Solid  
 Analysis Batch: 116454

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	239.9		mg/Kg		92	90 - 110	0	20

### QC Association Summary

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

#### GC VOA

##### Prep Batch: 116368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-4	SS04	Total/NA	Solid	5035	
890-8611-5	SS05	Total/NA	Solid	5035	
MB 880-116368/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116368/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116368/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-61320-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-61320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

##### Analysis Batch: 116439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	8021B	116460
890-8611-2	SS02	Total/NA	Solid	8021B	116460
890-8611-3	SS03	Total/NA	Solid	8021B	116460
MB 880-116460/5-A	Method Blank	Total/NA	Solid	8021B	116460
LCS 880-116460/1-A	Lab Control Sample	Total/NA	Solid	8021B	116460
LCSD 880-116460/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116460
890-8615-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	116460
890-8615-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116460

##### Analysis Batch: 116441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-4	SS04	Total/NA	Solid	8021B	116368
890-8611-5	SS05	Total/NA	Solid	8021B	116368
MB 880-116368/5-A	Method Blank	Total/NA	Solid	8021B	116368
LCS 880-116368/1-A	Lab Control Sample	Total/NA	Solid	8021B	116368
LCSD 880-116368/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116368
880-61320-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	116368
880-61320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116368

##### Prep Batch: 116460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	5035	
890-8611-2	SS02	Total/NA	Solid	5035	
890-8611-3	SS03	Total/NA	Solid	5035	
MB 880-116460/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116460/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116460/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8615-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8615-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

##### Analysis Batch: 116560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	Total BTEX	
890-8611-2	SS02	Total/NA	Solid	Total BTEX	
890-8611-3	SS03	Total/NA	Solid	Total BTEX	
890-8611-4	SS04	Total/NA	Solid	Total BTEX	
890-8611-5	SS05	Total/NA	Solid	Total BTEX	

### QC Association Summary

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

#### GC Semi VOA

##### Prep Batch: 116428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-2	SS02	Total/NA	Solid	8015NM Prep	
890-8611-3	SS03	Total/NA	Solid	8015NM Prep	
890-8611-4	SS04	Total/NA	Solid	8015NM Prep	
890-8611-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-116428/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116428/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8611-2 MS	SS02	Total/NA	Solid	8015NM Prep	
890-8611-2 MSD	SS02	Total/NA	Solid	8015NM Prep	

##### Prep Batch: 116429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

##### Analysis Batch: 116449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-2	SS02	Total/NA	Solid	8015B NM	116428
890-8611-3	SS03	Total/NA	Solid	8015B NM	116428
890-8611-4	SS04	Total/NA	Solid	8015B NM	116428
890-8611-5	SS05	Total/NA	Solid	8015B NM	116428
MB 880-116428/1-A	Method Blank	Total/NA	Solid	8015B NM	116428
LCS 880-116428/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116428
LCSD 880-116428/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116428
890-8611-2 MS	SS02	Total/NA	Solid	8015B NM	116428
890-8611-2 MSD	SS02	Total/NA	Solid	8015B NM	116428

##### Analysis Batch: 116451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	8015B NM	116429
MB 880-116429/1-A	Method Blank	Total/NA	Solid	8015B NM	116429
LCS 880-116429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116429
LCSD 880-116429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116429
890-8607-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	116429
890-8607-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116429

##### Analysis Batch: 116552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Total/NA	Solid	8015 NM	
890-8611-2	SS02	Total/NA	Solid	8015 NM	
890-8611-3	SS03	Total/NA	Solid	8015 NM	
890-8611-4	SS04	Total/NA	Solid	8015 NM	
890-8611-5	SS05	Total/NA	Solid	8015 NM	

### QC Association Summary

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

#### HPLC/IC

##### Leach Batch: 116440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Soluble	Solid	DI Leach	
890-8611-2	SS02	Soluble	Solid	DI Leach	
890-8611-3	SS03	Soluble	Solid	DI Leach	
890-8611-4	SS04	Soluble	Solid	DI Leach	
890-8611-5	SS05	Soluble	Solid	DI Leach	
MB 880-116440/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8610-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8610-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

##### Analysis Batch: 116454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8611-1	SS01	Soluble	Solid	300.0	116440
890-8611-2	SS02	Soluble	Solid	300.0	116440
890-8611-3	SS03	Soluble	Solid	300.0	116440
890-8611-4	SS04	Soluble	Solid	300.0	116440
890-8611-5	SS05	Soluble	Solid	300.0	116440
MB 880-116440/1-A	Method Blank	Soluble	Solid	300.0	116440
LCS 880-116440/2-A	Lab Control Sample	Soluble	Solid	300.0	116440
LCSD 880-116440/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116440
890-8610-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	116440
890-8610-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	116440

### Lab Chronicle

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS01**

**Lab Sample ID: 890-8611-1**

Date Collected: 08/08/25 13:20

Matrix: Solid

Date Received: 08/08/25 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 20:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116560	08/12/25 20:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116552	08/12/25 13:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116429	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116451	08/12/25 13:06	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:15	CS	EET MID

**Client Sample ID: SS02**

**Lab Sample ID: 890-8611-2**

Date Collected: 08/08/25 13:25

Matrix: Solid

Date Received: 08/08/25 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116560	08/12/25 20:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116552	08/12/25 09:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 09:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:32	CS	EET MID

**Client Sample ID: SS03**

**Lab Sample ID: 890-8611-3**

Date Collected: 08/08/25 13:45

Matrix: Solid

Date Received: 08/08/25 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116460	08/12/25 10:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116439	08/12/25 20:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116560	08/12/25 20:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116552	08/12/25 10:16	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 10:16	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:38	CS	EET MID

**Client Sample ID: SS04**

**Lab Sample ID: 890-8611-4**

Date Collected: 08/08/25 14:45

Matrix: Solid

Date Received: 08/08/25 16:57

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	116368	08/11/25 12:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116441	08/12/25 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116560	08/12/25 18:09	AJ	EET MID

Eurofins Carlsbad

### Lab Chronicle

Client: Ensolum  
 Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
 SDG: 03C1558707

**Client Sample ID: SS04**

**Lab Sample ID: 890-8611-4**

Date Collected: 08/08/25 14:45

Matrix: Solid

Date Received: 08/08/25 16:57

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			116552	08/12/25 10:32	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 10:32	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:43	CS	EET MID

**Client Sample ID: SS05**

**Lab Sample ID: 890-8611-5**

Date Collected: 08/08/25 11:05

Matrix: Solid

Date Received: 08/08/25 16:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	116368	08/11/25 12:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116441	08/12/25 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116560	08/12/25 18:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			116552	08/12/25 10:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116428	08/12/25 07:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116449	08/12/25 10:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	116440	08/12/25 08:19	SI	EET MID
Soluble	Analysis	300.0		1			116454	08/12/25 11:49	CS	EET MID

**Laboratory References:**

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

### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

#### 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

- 1
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### Method Summary

Client: Ensolum  
Project/Site: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

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: JRU Legg pond -SPILLS

Job ID: 890-8611-1  
SDG: 03C1558707

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
890-8611-1	SS01	Solid	08/08/25 13:20	08/08/25 16:57	New Mexico
890-8611-2	SS02	Solid	08/08/25 13:25	08/08/25 16:57	New Mexico
890-8611-3	SS03	Solid	08/08/25 13:45	08/08/25 16:57	New Mexico
890-8611-4	SS04	Solid	08/08/25 14:45	08/08/25 16:57	New Mexico
890-8611-5	SS05	Solid	08/08/25 11:05	08/08/25 16:57	New Mexico

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### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8611-1

SDG Number: 03C1558707

**Login Number: 8611**

**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: 890-8611-1

SDG Number: 03C1558707

Login Number: 8611

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 08/11/25 09:33 PM

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

---

August 28, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU LEGG POND

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 14:00.

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  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/19/2025	Sampling Date:	08/18/2025
Reported:	08/28/2025	Sampling Type:	Soil
Project Name:	JRU LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558709	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.366440-103.869568		

**Sample ID: BH01B 2' (H255137-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.6	2.00	9.81	QM-07	
Toluene*	<0.050	0.050	08/21/2025	ND	2.15	108	2.00	6.52		
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	2.26	113	2.00	3.91		
Total Xylenes*	<0.150	0.150	08/21/2025	ND	7.08	118	6.00	3.51		
Total BTEX	<0.300	0.300	08/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	227	113	200	6.77		
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	224	112	200	9.04		
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND						

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Ensolum, LLC		P. O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		Company: XTO Energy					
Address: 3122 National Parks Hwy		Attn: Colton Brown					
City: Carlsbad		Address: 3104 E Green St					
Phone #: 970-210-9803		City: Carlsbad					
Project #: 03C1558709		State: NM Zip: 88220					
Project Name: JRU Legg Pond		Phone #:					
Project Location: 32.366440, -103.869568		Fax #:					
Sampler Name: Jacob Harrison							

Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH (8015M/D)	Chloride (4500)	BTEX (8021B)	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
H855137	BH01B	2	G	1		X						8/18/2025	9:53	X	X	X	Hold Removed 8/21/25 JPH
	BH01C	3	G	1		X						8/18/2025	9:56	X	X	X	

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Relinquished By: <i>[Signature]</i>	Date: 8-19-25	Received By: <i>[Signature]</i>	Date: 8-19-25
Relinquished By: <i>[Signature]</i>	Date: 8-19-25	Received By: <i>[Signature]</i>	Date: 8-19-25
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R.3.6 02/12/25	Observed Temp. °C Corrected Temp. °C	Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>[Signature]</i>
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Thermometer ID #140 Correction Factor +0.3°C	Bacteria (only) Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/>	Sample Condition Observed Temp. °C Corrected Temp. °C
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Phone #:	All Results are emailed. Please provide Email address: thillard@ensolum.com / tmorrissey@ensolum.com / kthomason@ensolum.com / jharrison@ensolum.com	
REMARKS: NAPP2520456406 / Cost Center: 1082851001			



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

---

August 21, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU LEGG POND

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 14:00.

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  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/19/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	JRU LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558709	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.366440-103.869568		

**Sample ID: BH01 0.5' (H255134-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.62	80.9	2.00	3.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/20/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	199	99.6	200	1.85	
<b>DRO &gt;C10-C28*</b>	<b>1380</b>	10.0	08/19/2025	ND	194	96.9	200	1.46	
<b>EXT DRO &gt;C28-C36</b>	<b>300</b>	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 129 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	08/19/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	JRU LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558709	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.366440-103.869568		

**Sample ID: BH01A 1' (H255134-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.62	80.9	2.00	3.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.70	84.8	2.00	5.32	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.71	85.7	2.00	5.79	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.04	84.0	6.00	5.98	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>288</b>	16.0	08/20/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	199	99.6	200	1.85	
<b>DRO &gt;C10-C28*</b>	<b>163</b>	10.0	08/19/2025	ND	194	96.9	200	1.46	
<b>EXT DRO &gt;C28-C36</b>	<b>38.4</b>	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 78.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

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\*=Accredited Analyte

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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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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 1 of 1

<b>Company Name:</b> Ensolum, LLC	<b>P.O. #:</b>	<b>ANALYSIS REQUEST</b>
<b>Project Manager:</b> Tracy Hillard	<b>Company:</b> XTO Energy	
<b>Address:</b> 3122 National Parks Hwy	<b>Attn:</b> Colton Brown	
<b>City:</b> Carlsbad	<b>Address:</b> 3104 E Green St	
<b>Phone #:</b> 970-210-9803	<b>City:</b> Carlsbad	
<b>Fax #:</b>	<b>State:</b> NM <b>Zip:</b> 88220	
<b>Project #:</b> 03C1558709	<b>Project Owner:</b> XTO Energy	
<b>Project Name:</b> JRU Legg Pond	<b>State:</b> NM <b>Zip:</b> 88220	
<b>Project Location:</b> 32.366440, -103.869568	<b>Phone #:</b>	
<b>Sampler Name:</b> Jacob Harrison	<b>Fax #:</b>	

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:					
H255134	BH01	0.5	G	1			X					8/18/2025	9:47	X	X	X
	BH01A	1	G	1			X					8/18/2025	9:50	X	X	X

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**Relinquished By:** *[Signature]* **Date:** 8/19/25 **Received By:** *[Signature]* **Date:** 8/19/25

**Relinquished By:** *[Signature]* **Date:** 8/19/25 **Received By:** *[Signature]* **Date:** 8/19/25

**Delivered By:** (Circle One)  **Observed Temp. °C** -0.3 **Sample Condition**  Intact  Cool  Intact

**Sampler - UPS - Bus - Other:** FORM-006 R 3.6 02/12/25 **Corrected Temp. °C** 0.0  Yes  No

**Turnaround Time:** Standard  Rush  **Bacteria (only) Sample Condition**  Cool  Intact  Yes  No

**REMARKS:** NAPP2520456406 / Cost Center: 1082851001



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---

January 21, 2026

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JRU LEGG POND

Enclosed are the results of analyses for samples received by the laboratory on 01/15/26 12:00.

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



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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	01/15/2026	Sampling Date:	01/13/2026
Reported:	01/21/2026	Sampling Type:	Soil
Project Name:	JRU LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558709	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.365000-103.868611		

**Sample ID: FS01 2' (H260246-01)**

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	01/17/2026	ND	1.90	94.8	2.00	1.46	
Toluene*	<0.050	0.050	01/17/2026	ND	1.99	99.7	2.00	1.42	
Ethylbenzene*	<0.050	0.050	01/17/2026	ND	1.99	99.7	2.00	0.678	
Total Xylenes*	<0.150	0.150	01/17/2026	ND	5.92	98.7	6.00	0.701	
Total BTEX	<0.300	0.300	01/17/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/16/2026	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	01/16/2026	ND	186	93.0	200	1.06	
DRO >C10-C28*	<10.0	10.0	01/16/2026	ND	180	90.2	200	0.769	
EXT DRO >C28-C36	<10.0	10.0	01/16/2026	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 110 % 39.9-141

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**Analytical Results For:**

ENSOLUM  
 TRACY HILLARD  
 3122 NATIONAL PARKS HWY  
 CARLSBAD NM, 88220  
 Fax To:

Received:	01/15/2026	Sampling Date:	01/13/2026
Reported:	01/21/2026	Sampling Type:	Soil
Project Name:	JRU LEGG POND	Sampling Condition:	Cool & Intact
Project Number:	03C1558709	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.365000-103.868611		

**Sample ID: SW01 0-2' (H260246-02)**

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	01/17/2026	ND	1.90	94.8	2.00	1.46		
Toluene*	<0.050	0.050	01/17/2026	ND	1.99	99.7	2.00	1.42		
Ethylbenzene*	<0.050	0.050	01/17/2026	ND	1.99	99.7	2.00	0.678		
Total Xylenes*	<0.150	0.150	01/17/2026	ND	5.92	98.7	6.00	0.701		
Total BTEX	<0.300	0.300	01/17/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/16/2026	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	01/16/2026	ND	186	93.0	200	1.06		
DRO >C10-C28*	<10.0	10.0	01/16/2026	ND	180	90.2	200	0.769		
EXT DRO >C28-C36	<10.0	10.0	01/16/2026	ND						

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 109 % 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.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
\*\* Samples not received at proper temperature of 6°C or below.
\*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 1 of 1

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		Company: XTO Energy			
Address: 3122 National Parks Hwy		Attn: Dale Woodall			
City: Carlsbad		Address: 3104 E Green St			
State: NM Zip: 88220		City: Carlsbad			
Phone #: 970-210-9803		State: NM Zip: 88220			
Fax #: 970-210-9803		Phone #:			
Project #: 03C1558709		Project Owner: XTO Energy			
Project Name: JRU Legg Pond		State: NM Zip: 88220			
Project Location: 32.365000, -103.868611		Phone #:			
Sampler Name: Jacob Harrison		Fax #:			

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 :						PRESERV
1	FS01	2	C	1		X						1/13/2026	9:44	X	X	X
	SW01	0-2	C	1		X						1/13/2026	9:47	X	X	X

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Relinquished By: *AW* Date: *1-15-2026* Received By: *CIS 04024717*

Relinquished By: *AW* Date: *1800* Received By: *DUPRES*

Delivered By: (Circle One) Observed Temp. °C *50.1* Sample Condition Cool Intact  Yes  No

Sampler - UPS - Bus - Other: FORM-006 R.3.6 02/12/25 Corrected Temp. °C *30.1* Cool Intact  Yes  No

Turnaround Time: Standard  Rush  Bacteria (only) Sample Condition Cool Intact  Yes  No

CC: 1082851001 / GFCM: 48605000 / NAPP2520456406

Verbal Result:  Yes  No Add'l Phone #:

ALL Results are emailed. Please provide Email address: thillard@ensolum.com / tmorrissey@ensolum.com / kthomason@ensolum.com / richard.kotzur@exxomobill.com / jharrison@ensolum.com

REMARKS:

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



Appendix E

NMOCD Correspondence

---

<b>Location:</b>	<b>JRU LEGG POND</b>	
<b>Spill Date:</b>	<b>7/22/2025</b>	
<b>OCD #</b>	<b>nAPP2520456406</b>	
<b>Area 1 (surface)</b>		
Approximate Area =		sq. ft.
Average Saturation (or depth) of spill =		inches
Average Porosity Factor =	0.00	
Volume of spill in Area 1	0.00	bbls
<b>Area 2 (containment)</b>		
Approximate Area =	55944.24	sq. ft.
Average depth of spill =	0.20	inches
Volume of spill in Area 2	118.00	bbls
<b>TOTAL VOLUME OF LEAK</b>		
<b>Total Crude Oil =</b>	<b>0.00</b>	<b>bbls</b>
<b>Total Produced Water =</b>	<b>118.00</b>	<b>bbls</b>
<b>TOTAL VOLUME RECOVERED</b>		
<b>Total Crude Oil =</b>	<b>0.00</b>	<b>bbls</b>
<b>Total Produced Water =</b>	<b>118.00</b>	<b>bbls</b>

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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 488764

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 488764
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2520456406
Incident Name	NAPP2520456406 JRU LEGG POND @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAB1902552191] JAMES RANCH UNIT LEGG POND

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	JRU LEGG POND
Date Release Discovered	07/22/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Power Failure   Pump   Produced Water   Released: 118 BBL   Recovered: 118 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 488764

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 488764
	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>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 07/25/2025
--	--

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

QUESTIONS, Page 3

Action 488764

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 488764
	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.

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

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

CONDITIONS

Action 488764

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 488764
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	7/25/2025

**From:** [Rodgers, Scott, EMNRD](#)  
**To:** [Brown, Colton S](#)  
**Cc:** [Dirkx, Kaylan](#); [Woodall, Robert D](#); [Mcafee, Ashley A](#); [Sanchez, Gustavo /C](#); [Tacoma Morrissey](#); [Tracy Hillard](#); [Ben Belill](#)  
**Subject:** RE: [EXTERNAL] XTO - Variance Request - PLU Legg Pond - nAPP2520456406  
**Date:** Thursday, July 24, 2025 10:44:58 AM

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[ \*\*EXTERNAL EMAIL\*\* ]

Good Morning,

The variance request regarding 19.15.29.12.D.(1a) is approved.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you,  
Scott

**Scott Rodgers** • Environmental Specialist – Adv.  
Environmental Bureau  
EMNRD - Oil Conservation Division  
5200 Oakland NE, Suite B | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, July 24, 2025 8:48 AM  
**To:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] XTO - Variance Request - PLU Legg Pond - nAPP2520456406

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**From:** Brown, Colton S <[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)>  
**Sent:** Wednesday, July 23, 2025 4:03 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; CFO\_Spill, BLM\_NM <[BLM\\_NM\\_CFO\\_Spill@blm.gov](mailto:BLM_NM_CFO_Spill@blm.gov)>  
**Cc:** Dirx, Kaylan <[kaylan.dirx@exxonmobil.com](mailto:kaylan.dirx@exxonmobil.com)>; Woodall, Robert D <[robert.d.woodall@exxonmobil.com](mailto:robert.d.woodall@exxonmobil.com)>; McAfee, Ashley A <[ashley.a.mcafee@exxonmobil.com](mailto:ashley.a.mcafee@exxonmobil.com)>; Sanchez, Gustavo /C <[gustavo.sanchez@exxonmobil.com](mailto:gustavo.sanchez@exxonmobil.com)>; Tacoma Morrissey <[tmorrissey@ensolum.com](mailto:tmorrissey@ensolum.com)>; Tracy Hillard <[thillard@ensolum.com](mailto:thillard@ensolum.com)>; Ben Belill <[bbelill@ensolum.com](mailto:bbelill@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Variance Request - PLU Legg Pond - nAPP2520456406

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

XTO is requesting a variance of the 48-hr liner inspection notification (C-141L) requirement for a spill at JRU Legg Pond (Incident Number nAPP2520456406). Due to simultaneous operations (SIMOPS) in the area of the subject lined containment, successful liner inspection activities will be limited in the 90 day timeframe allotted by the NMOCD. Access to the liner without SIMOPS is obtainable Friday, July 25, 2025. In order to submit a closure request report required in 19.15.29.12.B.(1) NMAC with an adequate lined containment inspection. XTO requests the lined containment inspection photographs collected may be used for closure, providing that they meet applicable standards. XTO requests to complete the lined containment inspection Friday, July 25, 2025. Following approval of the variance, a C-141L will be submitted via the portal and the correspondence will be included in the final report.

Thank You

**Colton Brown**  
Spill Coordinator

**ExxonMobil Upstream Company**  
3104 E. Greene St.  
Carlsbad, NM 88220  
Cell Phone: 575-988-2390  
[colton.s.brown@exxonmobil.com](mailto:colton.s.brown@exxonmobil.com)

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

QUESTIONS

Action 556413

**QUESTIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2520456406
Incident Name	NAPP2520456406 JRU LEGG POND @ FAB1902552191
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAB1902552191] JAMES RANCH UNIT LEGG POND

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	JRU LEGG POND
Date Release Discovered	07/22/2025
Surface Owner	Federal

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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Power Failure   Pump   Produced Water   Released: 118 BBL   Recovered: 118 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<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>	

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	<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>
<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>	
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: 02/20/2026

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QUESTIONS, Page 3

Action 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1/2 and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1/2 and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
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	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	976
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1680
GRO+DRO (EPA SW-846 Method 8015M)	1380
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	07/24/2025
On what date will (or did) the final sampling or liner inspection occur	01/13/2026
On what date will (or was) the remediation complete(d)	01/13/2026
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	15
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	15
<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 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	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: 02/20/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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QUESTIONS, Page 6

Action 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	<b>540962</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>01/16/2026</b>
What was the (estimated) number of samples that were to be gathered	<b>5</b>
What was the sampling surface area in square feet	<b>1000</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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	200
What was the total volume (cubic yards) remediated	15
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	200
What was the total volume (in cubic yards) reclaimed	15
Summarize any additional remediation activities not included by answers (above)	Site assessment activities were conducted at the Site to assess for the presence of absence of impacted soil resulting from the July 22, 2025 produced water release. Laboratory analytical results for the soil samples collected within the release area, following removal of the impacted soil, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria and the strictest Table I Closure Criteria. No surficial staining remains and based on the soil sample analytical results, no further remediation was required. XTO respectfully requests closure for Incident Number nAPP2520456406.

*The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 02/20/2026
--	---

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QUESTIONS, Page 7

Action 556413

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

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CONDITIONS

Action 556413

**CONDITIONS**

Operator: XTO ENERGY, INC 3617 North Big Spring Street Midland, TX 79705	OGRID: 5380
	Action Number: 556413
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	3/10/2026