



December 4, 2025

**New Mexico Oil Conservation Division**

New Mexico Energy, Minerals, and Natural Resources Department  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Closure Request  
PLU BS 25 Fed Battery  
Incident Number nAPP2433036088  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document the findings of a liner integrity inspection and delineation activities conducted at the PLU BS 25 Fed Battery (Site) following a release of crude oil within a 2,905 square foot, earthen berm, lined containment. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing the inspection results and requesting closure for Incident Number nAPP2433036088.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit O, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.181786°, -103.833445°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On November 24, 2024, equipment failure at the heater treater resulted in the release of approximately 18 barrels (bbls) of crude oil into a lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids, and all fluids were recovered. The lined containment was power washed to remove any residual fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) and submitted an Initial C-141 Application (C-141) on November 25, 2024. The release was assigned Incident Number nAPP2433036088.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On October 7, 2020, a soil boring permitted by New Mexico Office of the State Engineer (C-4478) was completed approximately 0.53 miles north of the Site utilizing air rotary drilling method. The soil boring was drilled to a total depth of 110 feet bgs. No groundwater was encountered during drilling activities. The well was

XTO Energy, Inc  
Closure Request  
PLU BS 25 Fed Battery

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properly plugged and abandoned using concrete, hydrated bentonite chips, and sand. All wells used for depth to groundwater determination are presented on Figure 1. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash located approximately 10,341 feet west 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 not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, and the NMOCD's preference for groundwater data within half a mile of the Site and within 25 years, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

## LINER INTEGRITY INSPECTION ACTIVITIES

A 48-hour advanced notice of the liner inspection was submitted to the NMOCD on August 18, 2025. The lined containment was cleaned of all debris and power washed and a liner integrity inspection was conducted by Ensolum personnel on August 28, 2025. The lined containment was inspected, and it was determined to contain a small hole. The hole was observed on the floor of the liner near the central portion of the east wall. No damage was observed to the walls of the lined containment. Delineation to determine the presence or absence of impacts to soil beneath the hole was warranted. A Site map of the lined containment is included in Figure 2. Photographic documentation of the inspection is included in Appendix B.

## DELINEATION SOIL SAMPLING ACTIVITIES

On October 3 and 28, 2025, Ensolum personnel were at the Site to oversee delineation activities. Four delineation soil samples (SS01 through SS04) were collected around the lined containment from ground surface to confirm the release remained within the lined containment walls. One borehole (BH01) was advanced via hand auger to a terminal depth of 1-foot bgs in the location of the hole in the liner. 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 from the borehole were logged on a lithologic/soil sampling log, which is included in Appendix C. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States



XTO Energy, Inc  
Closure Request  
PLU BS 25 Fed Battery

Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

**LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COCs were in compliance with Site Closure Criteria, confirming the lateral extent of the release; that the release was contained within the lined containment walls. Laboratory analytical results for delineation soil samples BH01 and BH01A indicated TPH and Chloride concentrations were in compliance with Site Closure Criteria at both 0.5 feet bgs and 1-foot bgs. Laboratory analytical results are summarized in Table 1, and the laboratory analytical reports are included in Appendix D.

**CLOSURE REQUEST**

Liner integrity inspection and delineation activities were completed following the November 24, 2024, release of crude oil within a lined containment at the Site. A liner integrity inspection was conducted on behalf of XTO, by Ensolum personnel on August 28, 2025. Laboratory analytical results for all delineation soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. XTO patched all holes and tears in the liner following completion of delineation activities.

Delineation of potential impacts at this Site determined that no soil that exceeded Site Closure Criteria below the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. Based on the lateral and vertical delineation results, XTO respectfully requests closure for Incident Number nAPP2433036088.

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

Sincerely,  
**Ensolum, LLC**



Kim Thomason  
Senior Technician



Tacoma Morrissey, PG (licensed in TX)  
Associate Principal

Cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM

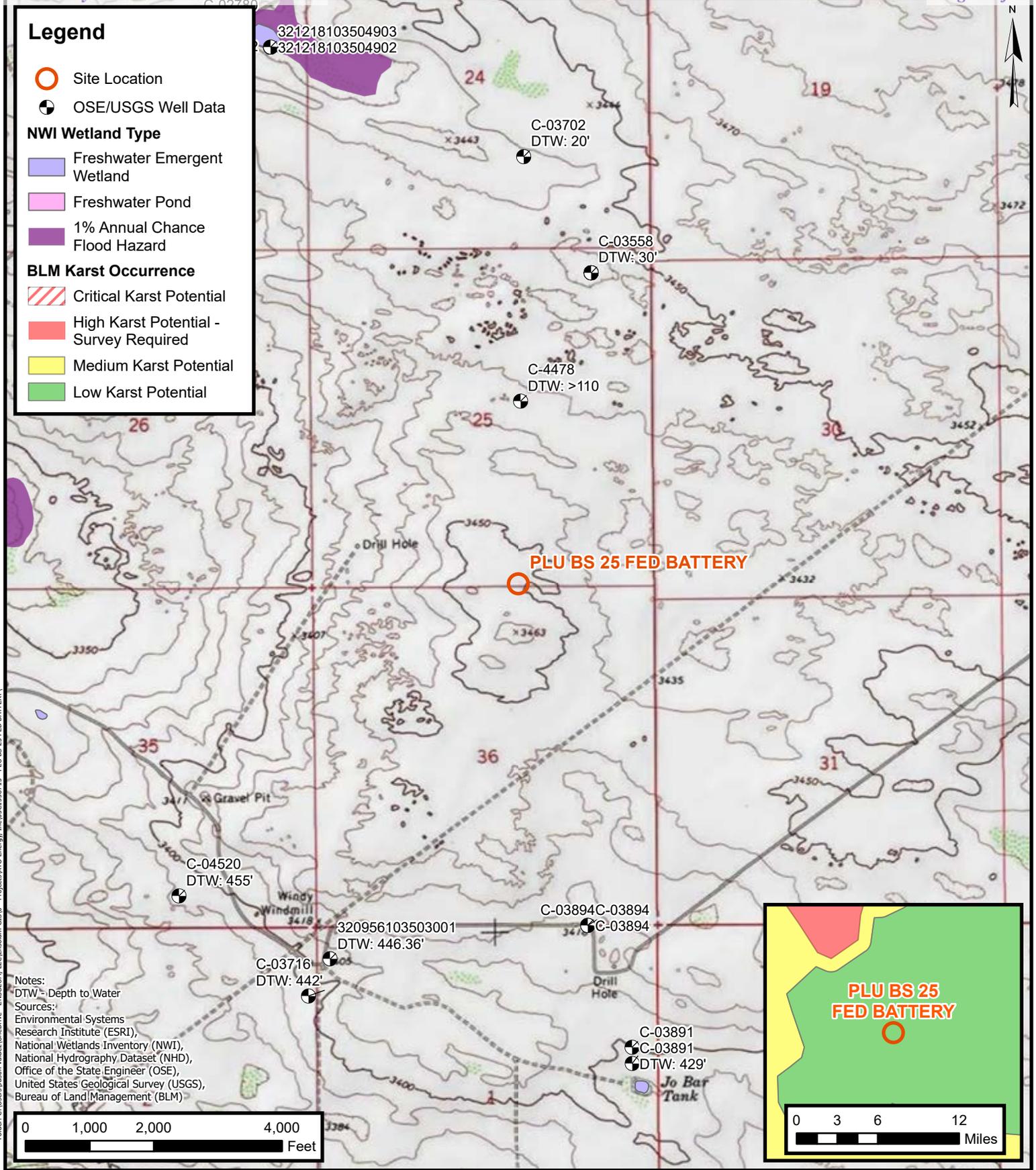
Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Site Map
- Appendix A Well Record and Log
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain of Custody Documentation
- Appendix E Spill Volume Calculation





FIGURES



Folder: C:\Users\Justin.Velazquez\OneDrive - ENSOLUM, LLC\Ensolium GIS\0 - Projects\XTO Energy, Inc\03894\589715 - PLU BS 25 FED BATTERY

**ENSOLUM**  
Environmental, Engineering and Hydrogeologic Consultants

**Site Receptor Map**  
XTO Energy, Inc.  
PLU BS 25 FED BATTERY  
Incident Number: nAPP2433036088  
Unit O, Section 25, T 24S, R 30E  
Eddy County, New Mexico

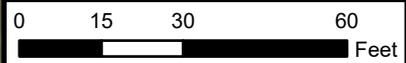
**FIGURE**  
**1**

### Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- ▲ Point of Release (POR)
- Lined Containment



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



**Site Map**  
 XTO Energy, Inc.  
 PLU BS 25 FED BATTERY  
 Incident Number: nAPP2433036088  
 Unit O, Section 25, T 24S, R 30E  
 Eddy County, New Mexico

**FIGURE**  
**2**



TABLES



**TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU BS 25 Fed Battery - Spill  
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	10/03/2025	Surface	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	393
SS02	10/03/2025	Surface	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	97.1
SS03	10/03/2025	Surface	<0.00198	<0.00396	<49.9	61.1	<49.9	61.1	61.1	108
SS04	10/03/2025	Surface	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	113
BH01	10/28/2025	0.5	<0.00199	<0.00398	<49.9	54.6	<49.9	54.6	54.6	463
BH01A	10/28/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	234

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



## APPENDIX A

### Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2020 OCT 29 PM 1:03

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) <b>POD1 (BH-01)</b>		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4478			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32°	SECONDS 11'	SECONDS 22.57"	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND
		LONGITUDE	-103°	49'	56.14"	W		* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE <b>SW SE NE Sec. 25 T24S R30E</b>								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/07/2020	DRILLING ENDED 10/07/2020	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: <b>Hollow Stem Auger</b>							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±8.5	Boring- HSA	--	--	--	--
<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/30/17)			
FILE NO.	<b>0-4478</b>	POD NO.	<b>1</b>	TRN NO.	<b>618382</b>		
LOCATION	<b>24S-30E-25</b>	<b>23-3</b>	WELL TAG ID NO.	<b>NA</b>	PAGE 1 OF 2		



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

Final Audit Report

2020-10-27

Created:	2020-10-27
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAESGKFRG9AU3NcytvOCSRntC1Y-zT943Y

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

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

2020 OCT 29 PM 1:08  
 JACK ATKINS  
 74.50.153.115



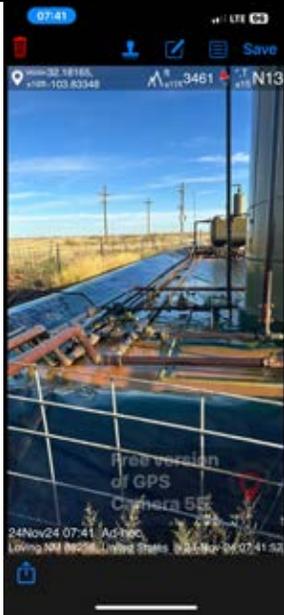


APPENDIX B  
Photographic Log

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**Photographic Log**  
XTO Energy, Inc.  
PLU BS 25 Fed Bat  
nAPP2433036088



Photograph: 1 Date: 11/24/2024  
Description: Initial release  
View: North



Photograph: 2 Date: 11/24/2024  
Description: Initial release  
View: West



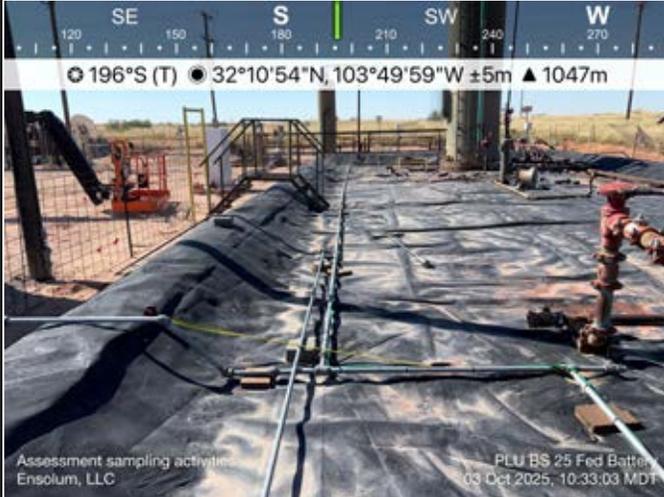
Photograph: 3 Date: 8/28/2025  
Description: Facility sign  
View: West



Photograph: 4 Date: 8/28/2025  
Description: Liner inspection activities near identified hole (BH01)  
View: Direct

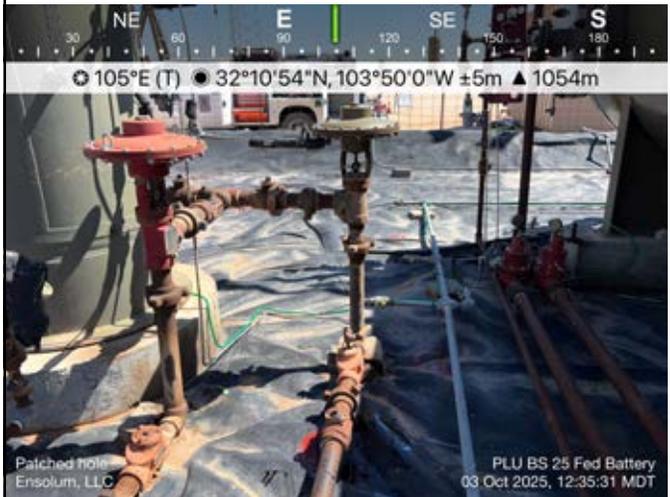


**Photographic Log**  
XTO Energy, Inc.  
PLU BS 25 Fed Bat  
nAPP2433036088



Photograph: 5 Date: 10/3/2025  
Description: Delineation activities near SS04  
View: South

Photograph: 6 Date: 10/3/2025  
Description: Southwest liner near BH01  
View: Northeast



Photograph: 7 Date: 10/3/2025  
Description: Delineation activities near SS02  
View: North

Photograph: 8 Date: 10/3/2025  
Description: Central liner, facing SS04  
View: East

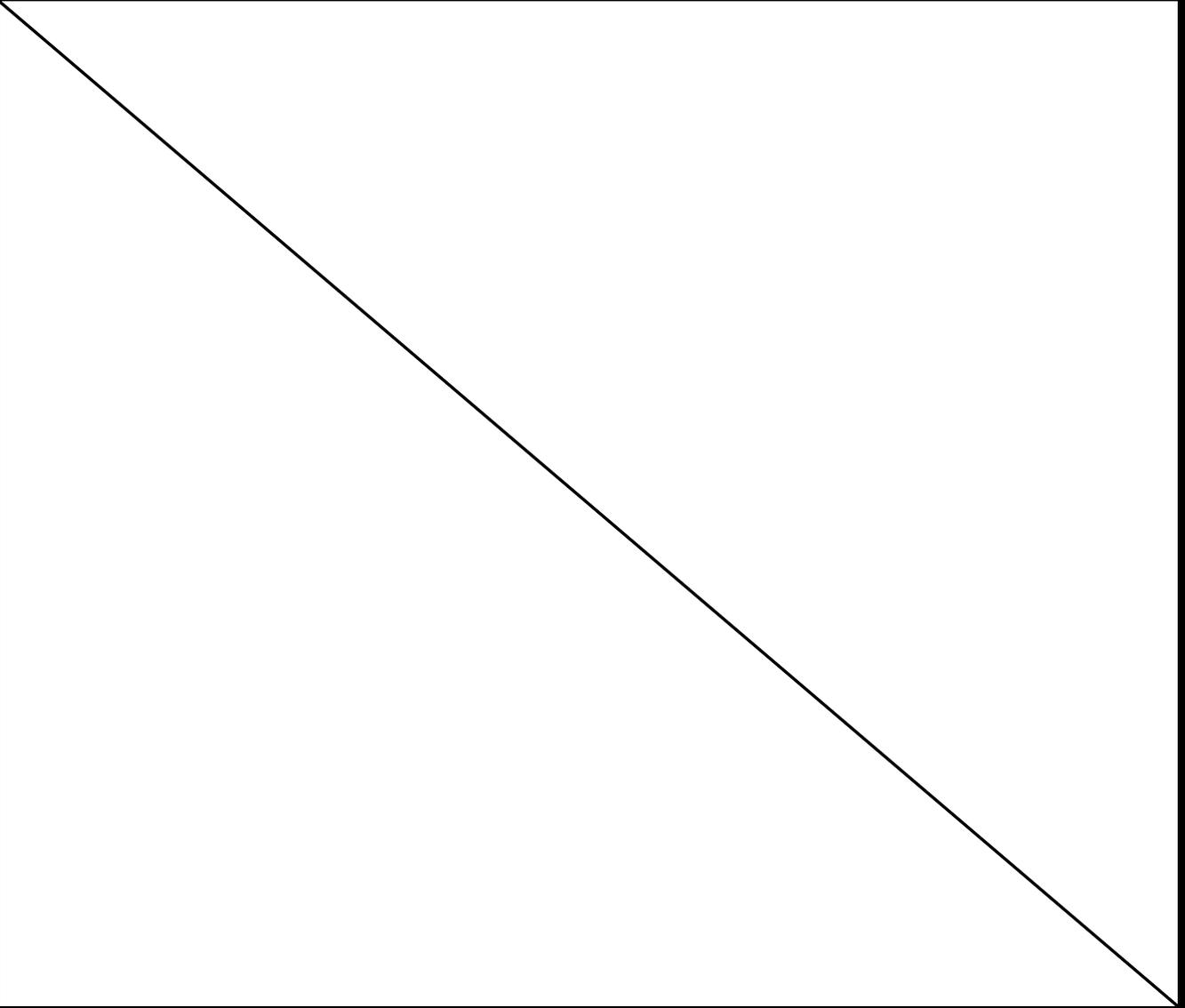




## APPENDIX C

### Lithologic Soil Sampling Logs

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					Sample Name: BH01		Date: 10/28/2025	
					Site Name: PLU Big Sinks 25 Fed Battery			
					Incident Number: nAPP2433036088			
					Job Number: 03C1558715			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: Evan Roe		Method: Hand Auger	
Coordinates: 32.181741, -103.833408					Hole Diameter: 3.5in		Total Depth: 1 foot	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	246	3.2	N	BH01	0.5	0	CL	(0-0.5') CLAY. Red. Uniform. No staining. Weak odor.
Dry	179	0.7	N	BH01A	1	1	SM	(0.5-1') SAND. Brown. Uniform. No staining or odor.
Total Depth @ 1 Foot								
								



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing

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- 14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeremy Reich  
 Ensolum  
 601 N. Marienfeld St.  
 Suite 400  
 Midland, Texas 79701  
 Generated 10/7/2025 9:33:14 AM

## JOB DESCRIPTION

Plu BS 25 Fed Battery  
 03C1558715

## JOB NUMBER

890-8909-1



# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
10/7/2025 9:33:14 AM

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

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Laboratory Job ID: 890-8909-1  
SDG: 03C1558715

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

## Case Narrative

Client: Ensolum  
Project: Plu BS 25 Fed Battery

Job ID: 890-8909-1

**Job ID: 890-8909-1**

**Eurofins Carlsbad**

### Job Narrative 890-8909-1

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 10/3/2025 2:53 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 8.4°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS02 (890-8909-1), SS03 (890-8909-2) and SS04 (890-8909-3).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-8909-1), (CCV 880-120499/33), (CCV 880-120499/51) and (890-8910-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-120506 and analytical batch 880-120499 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

#### Diesel Range Organics

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-120404 and analytical batch 880-120510 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-120489 and analytical batch 880-120491 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

**Client Sample ID: SS02**

**Lab Sample ID: 890-8909-1**

Date Collected: 10/03/25 09:40

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/06/25 08:33	10/06/25 23:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130			10/06/25 08:33	10/06/25 23:31	1
1,4-Difluorobenzene (Surr)	74		70 - 130			10/06/25 08:33	10/06/25 23:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/06/25 23:31	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			10/06/25 11:53	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		10/03/25 08:21	10/06/25 11:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		10/03/25 08:21	10/06/25 11:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/03/25 08:21	10/06/25 11:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	89		70 - 130			10/03/25 08:21	10/06/25 11:53	1
o-Terphenyl	91		70 - 130			10/03/25 08:21	10/06/25 11:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.1		10.1	mg/Kg			10/04/25 19:20	1

**Client Sample ID: SS03**

**Lab Sample ID: 890-8909-2**

Date Collected: 10/03/25 09:42

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/06/25 08:33	10/06/25 23:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		70 - 130			10/06/25 08:33	10/06/25 23:51	1

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### Client Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

**Client Sample ID: SS03**

**Lab Sample ID: 890-8909-2**

Date Collected: 10/03/25 09:42

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	117		70 - 130	10/06/25 08:33	10/06/25 23:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			10/06/25 23:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.1		49.9	mg/Kg			10/06/25 12:08	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		10/03/25 08:21	10/06/25 12:08	1
Diesel Range Organics (Over C10-C28)	61.1	*1	49.9	mg/Kg		10/03/25 08:21	10/06/25 12:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/03/25 08:21	10/06/25 12:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	10/03/25 08:21	10/06/25 12:08	1
o-Terphenyl	91		70 - 130	10/03/25 08:21	10/06/25 12:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		10.1	mg/Kg			10/04/25 19:25	1

**Client Sample ID: SS04**

**Lab Sample ID: 890-8909-3**

Date Collected: 10/03/25 09:44

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/06/25 08:33	10/07/25 00:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/06/25 08:33	10/07/25 00:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/06/25 08:33	10/07/25 00:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/06/25 08:33	10/07/25 00:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/06/25 08:33	10/07/25 00:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/06/25 08:33	10/07/25 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/06/25 08:33	10/07/25 00:11	1
1,4-Difluorobenzene (Surr)	111		70 - 130	10/06/25 08:33	10/07/25 00:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/07/25 00:11	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			10/06/25 12:24	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
 SDG: 03C1558715

**Client Sample ID: SS04**

**Lab Sample ID: 890-8909-3**

Date Collected: 10/03/25 09:44

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

**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		10/03/25 08:21	10/06/25 12:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		10/03/25 08:21	10/06/25 12:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	10/03/25 08:21	10/06/25 12:24	1
o-Terphenyl	95		70 - 130	10/03/25 08:21	10/06/25 12:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.1	mg/Kg			10/04/25 19:31	1

### Surrogate Summary

Client: Ensolum  
 Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
 SDG: 03C1558715

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8909-1	SS02	55 S1-	74
890-8909-2	SS03	94	117
890-8909-3	SS04	101	111
890-8910-A-1-D MS	Matrix Spike	110	87
890-8910-A-1-E MSD	Matrix Spike Duplicate	103	97
LCS 880-120506/1-A	Lab Control Sample	96	91
LCSD 880-120506/2-A	Lab Control Sample Dup	79	71
MB 880-119896/5-A	Method Blank	118	87
MB 880-120506/5-A	Method Blank	117	88

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-63341-A-57-D MS	Matrix Spike	98	90
880-63341-A-57-E MSD	Matrix Spike Duplicate	80	89
890-8909-1	SS02	89	91
890-8909-2	SS03	88	91
890-8909-3	SS04	91	95
LCS 880-120404/2-A	Lab Control Sample	93	87
LCSD 880-120404/3-A	Lab Control Sample Dup	90	101
MB 880-120404/1-A	Method Blank	74	77

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

### QC Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

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

Lab Sample ID: MB 880-119896/5-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 119896

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/26/25 14:23	10/06/25 11:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	118		70 - 130	09/26/25 14:23	10/06/25 11:32	1
1,4-Difluorobenzene (Surr)	87		70 - 130	09/26/25 14:23	10/06/25 11:32	1

Lab Sample ID: MB 880-120506/5-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/06/25 08:33	10/06/25 22:28	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	117		70 - 130	10/06/25 08:33	10/06/25 22:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/06/25 08:33	10/06/25 22:28	1

Lab Sample ID: LCS 880-120506/1-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.08937		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09241		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09405		mg/Kg		94	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-120506/2-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.07309		mg/Kg		73	70 - 130	23	35

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### QC Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

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

Lab Sample ID: LCSD 880-120506/2-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Toluene	0.100	0.07226		mg/Kg		72	70 - 130	21	35
Ethylbenzene	0.100	0.07520		mg/Kg		75	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1541		mg/Kg		77	70 - 130	19	35
o-Xylene	0.100	0.07828		mg/Kg		78	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: 890-8910-A-1-D MS  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.04715	F1	mg/Kg		47	70 - 130		
Toluene	<0.00200	U F1	0.100	0.03527	F1	mg/Kg		35	70 - 130		
Ethylbenzene	<0.00200	U F1	0.100	0.02617	F1	mg/Kg		26	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.05643	F1	mg/Kg		28	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.02871	F1	mg/Kg		29	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-8910-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.04126	F1	mg/Kg		41	70 - 130	13	35
Toluene	<0.00200	U F1	0.100	0.03127	F1	mg/Kg		31	70 - 130	12	35
Ethylbenzene	<0.00200	U F1	0.100	0.02237	F1	mg/Kg		22	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.04965	F1	mg/Kg		25	70 - 130	13	35
o-Xylene	<0.00200	U F1	0.100	0.02560	F1	mg/Kg		26	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-120404/1-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1

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### QC Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

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

Lab Sample ID: MB 880-120404/1-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	74		70 - 130	10/03/25 08:21	10/06/25 08:36	1
o-Terphenyl	77		70 - 130	10/03/25 08:21	10/06/25 08:36	1

Lab Sample ID: LCS 880-120404/2-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	891.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	773.5		mg/Kg		77	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-120404/3-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	968.4	*1	mg/Kg		97	70 - 130	22	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-63341-A-57-D MS  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	946.8		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	808.0		mg/Kg		79	70 - 130

### QC Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

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

Lab Sample ID: 880-63341-A-57-D MS  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120404

Surrogate	%Recovery	MS MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-63341-A-57-E MSD  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	971.1		mg/Kg		95	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	868.9		mg/Kg		85	70 - 130	7	20

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	89		70 - 130

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

Lab Sample ID: MB 880-120489/1-A  
Matrix: Solid  
Analysis Batch: 120491

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			10/04/25 16:53	1

Lab Sample ID: LCS 880-120489/2-A  
Matrix: Solid  
Analysis Batch: 120491

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-120489/3-A  
Matrix: Solid  
Analysis Batch: 120491

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	255.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-63422-A-11-B MS  
Matrix: Solid  
Analysis Batch: 120491

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	1250		250	1426	4	mg/Kg		69	90 - 110

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### QC Sample Results

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-63422-A-11-C MSD  
Matrix: Solid  
Analysis Batch: 120491

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	1250		250	1427	4	mg/Kg		69	90 - 110	0	20

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## QC Association Summary

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

## GC VOA

## Prep Batch: 119896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-119896/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 120499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	8021B	120506
890-8909-2	SS03	Total/NA	Solid	8021B	120506
890-8909-3	SS04	Total/NA	Solid	8021B	120506
MB 880-119896/5-A	Method Blank	Total/NA	Solid	8021B	119896
MB 880-120506/5-A	Method Blank	Total/NA	Solid	8021B	120506
LCS 880-120506/1-A	Lab Control Sample	Total/NA	Solid	8021B	120506
LCSD 880-120506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	120506
890-8910-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	120506
890-8910-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	120506

## Prep Batch: 120506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	5035	
890-8909-2	SS03	Total/NA	Solid	5035	
890-8909-3	SS04	Total/NA	Solid	5035	
MB 880-120506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-120506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-120506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8910-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-8910-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 120626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	Total BTEX	
890-8909-2	SS03	Total/NA	Solid	Total BTEX	
890-8909-3	SS04	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 120404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	8015NM Prep	
890-8909-2	SS03	Total/NA	Solid	8015NM Prep	
890-8909-3	SS04	Total/NA	Solid	8015NM Prep	
MB 880-120404/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-120404/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-120404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-63341-A-57-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-63341-A-57-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 120510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	8015B NM	120404
890-8909-2	SS03	Total/NA	Solid	8015B NM	120404
890-8909-3	SS04	Total/NA	Solid	8015B NM	120404
MB 880-120404/1-A	Method Blank	Total/NA	Solid	8015B NM	120404
LCS 880-120404/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	120404

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## QC Association Summary

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

## GC Semi VOA (Continued)

## Analysis Batch: 120510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-120404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	120404
880-63341-A-57-D MS	Matrix Spike	Total/NA	Solid	8015B NM	120404
880-63341-A-57-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	120404

## Analysis Batch: 120595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Total/NA	Solid	8015 NM	
890-8909-2	SS03	Total/NA	Solid	8015 NM	
890-8909-3	SS04	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 120489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Soluble	Solid	DI Leach	
890-8909-2	SS03	Soluble	Solid	DI Leach	
890-8909-3	SS04	Soluble	Solid	DI Leach	
MB 880-120489/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-120489/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-120489/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-63422-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-63422-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 120491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8909-1	SS02	Soluble	Solid	300.0	120489
890-8909-2	SS03	Soluble	Solid	300.0	120489
890-8909-3	SS04	Soluble	Solid	300.0	120489
MB 880-120489/1-A	Method Blank	Soluble	Solid	300.0	120489
LCS 880-120489/2-A	Lab Control Sample	Soluble	Solid	300.0	120489
LCSD 880-120489/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	120489
880-63422-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	120489
880-63422-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	120489

### Lab Chronicle

Client: Ensolum  
 Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
 SDG: 03C1558715

**Client Sample ID: SS02**

**Lab Sample ID: 890-8909-1**

Date Collected: 10/03/25 09:40

Matrix: Solid

Date Received: 10/03/25 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	120506	10/06/25 08:33	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120499	10/06/25 23:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			120626	10/06/25 23:31	SA	EET MID
Total/NA	Analysis	8015 NM		1			120595	10/06/25 11:53	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	120404	10/03/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	120510	10/06/25 11:53	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	120489	10/04/25 14:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	120491	10/04/25 19:20	CS	EET MID

**Client Sample ID: SS03**

**Lab Sample ID: 890-8909-2**

Date Collected: 10/03/25 09:42

Matrix: Solid

Date Received: 10/03/25 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	120506	10/06/25 08:33	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120499	10/06/25 23:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			120626	10/06/25 23:51	SA	EET MID
Total/NA	Analysis	8015 NM		1			120595	10/06/25 12:08	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	120404	10/03/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	120510	10/06/25 12:08	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	120489	10/04/25 14:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	120491	10/04/25 19:25	CS	EET MID

**Client Sample ID: SS04**

**Lab Sample ID: 890-8909-3**

Date Collected: 10/03/25 09:44

Matrix: Solid

Date Received: 10/03/25 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	120506	10/06/25 08:33	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120499	10/07/25 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			120626	10/07/25 00:11	SA	EET MID
Total/NA	Analysis	8015 NM		1			120595	10/06/25 12:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	120404	10/03/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	120510	10/06/25 12:24	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	120489	10/04/25 14:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	120491	10/04/25 19:31	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: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

#### Laboratory: Eurofins Midland

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

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

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

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

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### Method Summary

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

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

**Protocol References:**

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
Project/Site: Plu BS 25 Fed Battery

Job ID: 890-8909-1  
SDG: 03C1558715

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8909-1	SS02	Solid	10/03/25 09:40	10/03/25 14:53	SURF
890-8909-2	SS03	Solid	10/03/25 09:42	10/03/25 14:53	SURF
890-8909-3	SS04	Solid	10/03/25 09:44	10/03/25 14:53	SURF

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Environment Testing  
Xenco

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

### Chain of Custody

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

Project Manager:	Jeremy Reich / Joey Pinson	Bill to: (if different)	ATTN: Dale Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	970-210-9803	Email:	joey@ensolum.com, jpinson@ensolum.com, dwoodall@ensolum.com, jreusch@ensolum.com

Program State of Reportin	890-8909 Chain of Custody
Deliverables: EUD	<input type="checkbox"/> AVAR 1 <input type="checkbox"/> CURR1
fund	<input type="checkbox"/>
vel IV	<input type="checkbox"/>

Project Name:	PLU BS 25 Fed Battery	Turn Around	Pres. Code	8	8	8	ANALYSIS REQUEST	Preservative Codes	None: NO	DI Water: H <sub>2</sub> O
Project Number:	03C1558715	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Wet Ice:	Yes	No			Cool: Cool	MeOH: Me	
Project Location:	32, 181786, -103, 833445	Due Date:						HCL: HC	HNO <sub>3</sub> : HN	
Sampler's Name:	Jacob Harrison	TAT starts the day received by the lab, if received by 4:30pm						H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
PO #:								H <sub>3</sub> PO <sub>4</sub> : HP		
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Thermometer ID:	770007					NaHSO <sub>4</sub> : NABIS	
Samples Received Intact:	Yes	No	Correction Factor:	0.2					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Cooler Custody Seals:	Yes	No	Temperature Reading:	9.6					Zn Acetate+NaOH: Zn	
Sample Custody Seals:	Yes	No	Corrected Temperature:	9.4					NaOH+Ascorbic Acid: SAPC	
Total Containers:										

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH (8015M/D)	Chloride (4500)	BTEX (8021B)	Sample Comments
SS02	S	10/23	9:40	5' SFT	Grab	1				Incident ID: nAPP2433036088
SS03	S	10/23	9:42	4' H	Comp	1				CC: 1081011001
SS04	S	10/23	9:44	4' H	Comp	1				GFCM: 48605000
SS01A	S	10/23	10:26	1' H	Comp	1				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas TT AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Wg Mn Mo Ni K Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2:53 10/23			

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

**Chain of Custody Record**



eurofins  
 Environment Testing

<b>Client Information (Sub Contract Lab)</b>	Sampler: N/A	Lab P/N: Kramer, Jessica	Carrier Tracking Note: N/A
Shipping/Receiving: Eurofins Environment Testing South Cent	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofins.com	State of Origin: New Mexico
Address: 1211 W. Florida Ave.	Due Date Requested: 10/7/2025	Accreditations Required (See note): NELAP - Texas	COC No: 890-5966-1
City: Midland	TAT Requested (days): N/A		Page: 1 of 1
State, Zip: TX, 79701	PO #: N/A		Page # Job #: 890-8909-1
Phone: 432-704-5440 (Tel)	W/O #: N/A		Preservation Codes:
Email: N/A	Project #: 89000110		
Project Name: Piu BS 25 Fed Battery	SSOW#: N/A		
Site: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers	Special Instructions/Note:
					Preservation Code:					
SS02 (890-8909-1)	10/3/25	09:40	G	Solid					1	
SS03 (890-8909-2)	10/3/25	09:42	G	Solid					1	
SS04 (890-8909-3)	10/3/25	09:44	G	Solid					1	

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

**Possible Hazard Identification**

**Unconfirmed**

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

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *William* Date/Time: *10/3 16:00* Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No.: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: *IR-8 (-21)*

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

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

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

Method of Shipment: \_\_\_\_\_

Received by: *[Signature]* Date/Time: *10/6/25 0600* Company: \_\_\_\_\_

Received by: *[Signature]* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8909-1

SDG Number: 03C1558715

**Login Number: 8909**

**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: 890-8909-1

SDG Number: 03C1558715

Login Number: 8909

List Source: Eurofins Midland

List Number: 2

List Creation: 10/06/25 07:51 AM

Creator: Saenz, Connie

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	

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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 10/7/2025 9:33:37 AM

## JOB DESCRIPTION

PLU BS 25 Fed Battery  
03C1558715

## JOB NUMBER

890-8911-1



# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



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Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Laboratory Job ID: 890-8911-1  
SDG: 03C1558715

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

## Case Narrative

Client: Ensolum  
Project: PLU BS 25 Fed Battery

Job ID: 890-8911-1

**Job ID: 890-8911-1**

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### Job Narrative 890-8911-1

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 sample was received on 10/3/2025 2:53 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.4°C.

#### Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS01 (890-8911-1).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-120499/33), (CCV 880-120499/51) and (890-8910-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-120506 and analytical batch 880-120499 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

#### Diesel Range Organics

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-120404 and analytical batch 880-120510 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-120489 and analytical batch 880-120491 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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### Client Sample Results

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
 SDG: 03C1558715

**Client Sample ID: SS01**

**Lab Sample ID: 890-8911-1**

Date Collected: 10/03/25 10:26

Matrix: Solid

Date Received: 10/03/25 14:53

Sample Depth: SURF

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		10/06/25 08:33	10/07/25 00:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		10/06/25 08:33	10/07/25 00:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		10/06/25 08:33	10/07/25 00:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		10/06/25 08:33	10/07/25 00:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		10/06/25 08:33	10/07/25 00:32	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		10/06/25 08:33	10/07/25 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	10/06/25 08:33	10/07/25 00:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130	10/06/25 08:33	10/07/25 00:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			10/07/25 00:32	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			10/06/25 13:10	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		10/03/25 08:21	10/06/25 13:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		10/03/25 08:21	10/06/25 13:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/03/25 08:21	10/06/25 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	10/03/25 08:21	10/06/25 13:10	1
o-Terphenyl	89		70 - 130	10/03/25 08:21	10/06/25 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		9.96	mg/Kg			10/04/25 19:49	1

## Surrogate Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-8910-A-1-D MS	Matrix Spike	110	87
890-8910-A-1-E MSD	Matrix Spike Duplicate	103	97
890-8911-1	SS01	99	98
LCS 880-120506/1-A	Lab Control Sample	96	91
LCSD 880-120506/2-A	Lab Control Sample Dup	79	71
MB 880-119896/5-A	Method Blank	118	87
MB 880-120506/5-A	Method Blank	117	88

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-63341-A-57-D MS	Matrix Spike	98	90
880-63341-A-57-E MSD	Matrix Spike Duplicate	80	89
890-8911-1	SS01	84	89
LCS 880-120404/2-A	Lab Control Sample	93	87
LCSD 880-120404/3-A	Lab Control Sample Dup	90	101
MB 880-120404/1-A	Method Blank	74	77

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

Lab Sample ID: MB 880-119896/5-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 119896

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/26/25 14:23	10/06/25 11:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			09/26/25 14:23	10/06/25 11:32	1
1,4-Difluorobenzene (Surr)	87		70 - 130			09/26/25 14:23	10/06/25 11:32	1

Lab Sample ID: MB 880-120506/5-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/06/25 08:33	10/06/25 22:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			10/06/25 08:33	10/06/25 22:28	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/06/25 08:33	10/06/25 22:28	1

Lab Sample ID: LCS 880-120506/1-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.08937		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09241		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09405		mg/Kg		94	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	91		70 - 130				

Lab Sample ID: LCSD 880-120506/2-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.07309		mg/Kg		73	70 - 130	23	35

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

Lab Sample ID: LCSD 880-120506/2-A  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Toluene	0.100	0.07226		mg/Kg		72	70 - 130	21	35
Ethylbenzene	0.100	0.07520		mg/Kg		75	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1541		mg/Kg		77	70 - 130	19	35
o-Xylene	0.100	0.07828		mg/Kg		78	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	71		70 - 130

Lab Sample ID: 890-8910-A-1-D MS  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.04715	F1	mg/Kg		47	70 - 130		
Toluene	<0.00200	U F1	0.100	0.03527	F1	mg/Kg		35	70 - 130		
Ethylbenzene	<0.00200	U F1	0.100	0.02617	F1	mg/Kg		26	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.05643	F1	mg/Kg		28	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.02871	F1	mg/Kg		29	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-8910-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 120499

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 120506

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.04126	F1	mg/Kg		41	70 - 130	13	35
Toluene	<0.00200	U F1	0.100	0.03127	F1	mg/Kg		31	70 - 130	12	35
Ethylbenzene	<0.00200	U F1	0.100	0.02237	F1	mg/Kg		22	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.04965	F1	mg/Kg		25	70 - 130	13	35
o-Xylene	<0.00200	U F1	0.100	0.02560	F1	mg/Kg		26	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-120404/1-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

Lab Sample ID: MB 880-120404/1-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/03/25 08:21	10/06/25 08:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	74		70 - 130	10/03/25 08:21	10/06/25 08:36	1
o-Terphenyl	77		70 - 130	10/03/25 08:21	10/06/25 08:36	1

Lab Sample ID: LCS 880-120404/2-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	891.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	773.5		mg/Kg		77	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-120404/3-A  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	1000	1056		mg/Kg		106	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	968.4	*1	mg/Kg		97	70 - 130	22	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 880-63341-A-57-D MS  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120404

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	946.8		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	808.0		mg/Kg		79	70 - 130

### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

Lab Sample ID: 880-63341-A-57-D MS  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 120404

Surrogate	%Recovery	MS MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-63341-A-57-E MSD  
Matrix: Solid  
Analysis Batch: 120510

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 120404

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	1000	971.1		mg/Kg		95	70 - 130	3		20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	868.9		mg/Kg		85	70 - 130	7		20

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	89		70 - 130

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

Lab Sample ID: MB 880-120489/1-A  
Matrix: Solid  
Analysis Batch: 120491

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			10/04/25 16:53	1

Lab Sample ID: LCS 880-120489/2-A  
Matrix: Solid  
Analysis Batch: 120491

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-120489/3-A  
Matrix: Solid  
Analysis Batch: 120491

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	255.9		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-63422-A-11-B MS  
Matrix: Solid  
Analysis Batch: 120491

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	1250		250	1426	4	mg/Kg		69	90 - 110

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-63422-A-11-C MSD  
Matrix: Solid  
Analysis Batch: 120491

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	1250		250	1427	4	mg/Kg		69	90 - 110	0	20

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

## GC VOA

## Prep Batch: 119896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-119896/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 120499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	8021B	120506
MB 880-119896/5-A	Method Blank	Total/NA	Solid	8021B	119896
MB 880-120506/5-A	Method Blank	Total/NA	Solid	8021B	120506
LCS 880-120506/1-A	Lab Control Sample	Total/NA	Solid	8021B	120506
LCSD 880-120506/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	120506
890-8910-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	120506
890-8910-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	120506

## Prep Batch: 120506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	5035	
MB 880-120506/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-120506/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-120506/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8910-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-8910-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 120627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 120404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-120404/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-120404/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-120404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-63341-A-57-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-63341-A-57-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 120510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	8015B NM	120404
MB 880-120404/1-A	Method Blank	Total/NA	Solid	8015B NM	120404
LCS 880-120404/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	120404
LCSD 880-120404/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	120404
880-63341-A-57-D MS	Matrix Spike	Total/NA	Solid	8015B NM	120404
880-63341-A-57-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	120404

## Analysis Batch: 120597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Total/NA	Solid	8015 NM	

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### QC Association Summary

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
 SDG: 03C1558715

#### HPLC/IC

##### Leach Batch: 120489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Soluble	Solid	DI Leach	
MB 880-120489/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-120489/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-120489/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-63422-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-63422-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

##### Analysis Batch: 120491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8911-1	SS01	Soluble	Solid	300.0	120489
MB 880-120489/1-A	Method Blank	Soluble	Solid	300.0	120489
LCS 880-120489/2-A	Lab Control Sample	Soluble	Solid	300.0	120489
LCSD 880-120489/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	120489
880-63422-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	120489
880-63422-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	120489

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### Lab Chronicle

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
 SDG: 03C1558715

**Client Sample ID: SS01**

**Lab Sample ID: 890-8911-1**

Date Collected: 10/03/25 10:26

Matrix: Solid

Date Received: 10/03/25 14:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	120506	10/06/25 08:33	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	120499	10/07/25 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			120627	10/07/25 00:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			120597	10/06/25 13:10	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	120404	10/03/25 08:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	120510	10/06/25 13:10	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	120489	10/04/25 14:56	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	120491	10/04/25 19:49	CS	EET MID

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

#### Laboratory: Eurofins Midland

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

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

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

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

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### Method Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8911-1  
SDG: 03C1558715

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8911-1	SS01	Solid	10/03/25 10:26	10/03/25 14:53	SURF

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

**Chain of Custody Record**



Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab P/N: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No.: 890-5966-1
Shipping/Receiving: Eurofins Environment Testing South Cent		Phone: N/A	E-Mail: Jessica.Kramer@eurofins.com	State of Origin: New Mexico	Page: Page 1 of 1
Address: 1211 W. Florida Ave.		Due Date Requested: 10/7/2025	Accreditations Required (See note): NELAP - Texas	Job #: 890-8911-1	Preservation Codes:
City: Midland	TAT Requested (days): N/A	<b>Analysis Requested</b>			
State, Zip: TX, 79701	PO #: N/A	<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No)			
Phone: 432-704-5440(Tel)	WO #: N/A	<input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)			
Email: N/A	Project #: 89000110	8015MOD_NM/8015NM_S_Prep(MOD) Full TPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Name: PLU BS 25 Fed Battery	SSOV#: N/A	8015MOD_Calc	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Site: N/A		300_ORGFM_28D/DI_LEACHChloride	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		8021B/5035FP_Calc(MOD) BTEX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Total_BTEX_GCV	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Sample Identification - Client ID (Lab ID)</b>				<b>Total Number of containers</b>	
SS01 (890-8911-1)	Sample Date: 10/3/25	Sample Time: 10:26	Sample Type: G	Matrix: Solid	1
<b>Special Instructions/Note:</b>					

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

**Possible Hazard Identification**

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2  
 Special Instructions/QC Requirements: \_\_\_\_\_

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: *Alida* Date/Time: 10/3 16:00 Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: *42/41 °C TRC (-0.1)*

### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8911-1

SDG Number: 03C1558715

**Login Number: 8911**

**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: 890-8911-1

SDG Number: 03C1558715

Login Number: 8911

List Number: 2

Creator: Saenz, Connie

List Source: Eurofins Midland

List Creation: 10/06/25 07:51 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jeremy Reich  
 Ensolum  
 601 N. Marienfeld St.  
 Suite 400  
 Midland, Texas 79701

Generated 10/29/2025 12:38:35 PM

## JOB DESCRIPTION

PLU BS 25 Fed Battery  
 03C1558715

## JOB NUMBER

890-8992-1



# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
10/29/2025 12:38:35 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: PLU BS 25 Fed Battery

Laboratory Job ID: 890-8992-1  
SDG: 03C1558715

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## Definitions/Glossary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Ensolum  
Project: PLU BS 25 Fed Battery

Job ID: 890-8992-1

**Job ID: 890-8992-1**

**Eurofins Carlsbad**

## Job Narrative 890-8992-1

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 10/28/2025 1:42 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 4.6°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-8992-1) and BH01A (890-8992-2).

### 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-122297 and analytical batch 880-122327 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

**Client Sample ID: BH01**

**Lab Sample ID: 890-8992-1**

Date Collected: 10/28/25 09:50

Matrix: Solid

Date Received: 10/28/25 13:42

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/28/25 20:00	10/29/25 08:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/28/25 20:00	10/29/25 08:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/28/25 20:00	10/29/25 08:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/28/25 20:00	10/29/25 08:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/28/25 20:00	10/29/25 08:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/28/25 20:00	10/29/25 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/28/25 20:00	10/29/25 08:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130	10/28/25 20:00	10/29/25 08:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/29/25 08:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.6		49.9	mg/Kg			10/29/25 10:39	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 F1	49.9	mg/Kg		10/29/25 07:54	10/29/25 10:39	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>54.6</b>		49.9	mg/Kg		10/29/25 07:54	10/29/25 10:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/29/25 07:54	10/29/25 10:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/29/25 07:54	10/29/25 10:39	1
o-Terphenyl	119		70 - 130	10/29/25 07:54	10/29/25 10:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	463		9.90	mg/Kg			10/29/25 09:22	1

**Client Sample ID: BH01A**

**Lab Sample ID: 890-8992-2**

Date Collected: 10/28/25 10:05

Matrix: Solid

Date Received: 10/28/25 13:42

Sample Depth: 1

**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		10/28/25 20:00	10/29/25 08:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/25 20:00	10/29/25 08:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/25 20:00	10/29/25 08:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/28/25 20:00	10/29/25 08:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/25 20:00	10/29/25 08:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/28/25 20:00	10/29/25 08:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	10/28/25 20:00	10/29/25 08:49	1

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### Client Sample Results

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
 SDG: 03C1558715

**Client Sample ID: BH01A**

**Lab Sample ID: 890-8992-2**

Date Collected: 10/28/25 10:05

Matrix: Solid

Date Received: 10/28/25 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	10/28/25 20:00	10/29/25 08:49	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			10/29/25 08:49	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			10/29/25 11:24	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		10/29/25 07:54	10/29/25 11:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/29/25 07:54	10/29/25 11:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/29/25 07:54	10/29/25 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	10/29/25 07:54	10/29/25 11:24	1
o-Terphenyl	121		70 - 130	10/29/25 07:54	10/29/25 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		10.0	mg/Kg			10/29/25 09:36	1

### Surrogate Summary

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
 SDG: 03C1558715

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
885-36205-A-1-E MS	Matrix Spike	105	107
885-36205-A-1-F MSD	Matrix Spike Duplicate	102	105
890-8992-1	BH01	101	94
890-8992-2	BH01A	103	86
LCS 880-122291/1-A	Lab Control Sample	102	101
LCSD 880-122291/2-A	Lab Control Sample Dup	101	100
MB 880-122192/5-A	Method Blank	101	91
MB 880-122291/5-A	Method Blank	103	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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8992-1	BH01	97	119
890-8992-1 MS	BH01	96	106
890-8992-1 MSD	BH01	95	103
890-8992-2	BH01A	99	121
LCS 880-122297/2-A	Lab Control Sample	102	111
LCSD 880-122297/3-A	Lab Control Sample Dup	100	110
MB 880-122297/1-A	Method Blank	83	98

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

### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

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

Lab Sample ID: MB 880-122192/5-A  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 122192

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/25 09:01	10/28/25 11:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			10/28/25 09:01	10/28/25 11:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/28/25 09:01	10/28/25 11:45	1

Lab Sample ID: MB 880-122291/5-A  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/28/25 16:55	10/28/25 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			10/28/25 16:55	10/28/25 23:40	1
1,4-Difluorobenzene (Surr)	91		70 - 130			10/28/25 16:55	10/28/25 23:40	1

Lab Sample ID: LCS 880-122291/1-A  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	0.100	0.09685		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2039		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-122291/2-A  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1050		mg/Kg		105	70 - 130	1	35

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

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

Lab Sample ID: LCSD 880-122291/2-A  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Toluene	0.100	0.09636		mg/Kg		96	70 - 130	1	35	
Ethylbenzene	0.100	0.09944		mg/Kg		99	70 - 130	1	35	
m-Xylene & p-Xylene	0.200	0.2022		mg/Kg		101	70 - 130	1	35	
o-Xylene	0.100	0.09943		mg/Kg		99	70 - 130	1	35	
<b>LCSD LCSD</b>										
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
4-Bromofluorobenzene (Surr)	101		70 - 130							
1,4-Difluorobenzene (Surr)	100		70 - 130							

Lab Sample ID: 885-36205-A-1-E MS  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.00200	U	0.100	0.09788		mg/Kg		98	70 - 130	
Toluene	<0.00200	U	0.100	0.08138		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.07523		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1457		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.100	0.07109		mg/Kg		71	70 - 130	
<b>MS MS</b>										
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
4-Bromofluorobenzene (Surr)	105		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: 885-36205-A-1-F MSD  
Matrix: Solid  
Analysis Batch: 122187

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 122291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09339		mg/Kg		93	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.07801		mg/Kg		78	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.07290		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1436		mg/Kg		72	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.07017		mg/Kg		70	70 - 130	1	35
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

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

Lab Sample ID: MB 880-122297/1-A  
Matrix: Solid  
Analysis Batch: 122327

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 122297

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/29/25 07:54	10/29/25 08:36		1

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

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

**Lab Sample ID: MB 880-122297/1-A**  
**Matrix: Solid**  
**Analysis Batch: 122327**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 122297**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/29/25 07:54	10/29/25 08:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/29/25 07:54	10/29/25 08:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	83		70 - 130	10/29/25 07:54	10/29/25 08:36	1
o-Terphenyl	98		70 - 130	10/29/25 07:54	10/29/25 08:36	1

**Lab Sample ID: LCS 880-122297/2-A**  
**Matrix: Solid**  
**Analysis Batch: 122327**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 122297**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	955.7		mg/Kg		96	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	102		70 - 130
o-Terphenyl	111		70 - 130

**Lab Sample ID: LCSD 880-122297/3-A**  
**Matrix: Solid**  
**Analysis Batch: 122327**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 122297**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	912.3		mg/Kg		91	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	929.8		mg/Kg		93	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	100		70 - 130
o-Terphenyl	110		70 - 130

**Lab Sample ID: 890-8992-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 122327**

**Client Sample ID: BH01**  
**Prep Type: Total/NA**  
**Prep Batch: 122297**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	54.6		1000	768.5		mg/Kg		71	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	96		70 - 130
o-Terphenyl	106		70 - 130

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### QC Sample Results

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

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

Lab Sample ID: 890-8992-1 MSD  
Matrix: Solid  
Analysis Batch: 122327

Client Sample ID: BH01  
Prep Type: Total/NA  
Prep Batch: 122297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	662.0	F1	mg/Kg		66	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	54.6		1000	762.2		mg/Kg		71	70 - 130	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD</b>	<b>Limits</b>							
1-Chlorooctane	95			70 - 130							
o-Terphenyl	103			70 - 130							

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

Lab Sample ID: MB 880-122286/1-A  
Matrix: Solid  
Analysis Batch: 122287

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			10/28/25 17:16	1

Lab Sample ID: LCS 880-122286/2-A  
Matrix: Solid  
Analysis Batch: 122287

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	228.1		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-122286/3-A  
Matrix: Solid  
Analysis Batch: 122287

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	226.1		mg/Kg		90	90 - 110	1	20

Lab Sample ID: 880-64265-A-1-D MS  
Matrix: Solid  
Analysis Batch: 122287

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	67.9		253	318.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-64265-A-1-E MSD  
Matrix: Solid  
Analysis Batch: 122287

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	67.9		253	317.7		mg/Kg		99	90 - 110	0	20

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### QC Association Summary

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
 SDG: 03C1558715

#### GC VOA

##### Analysis Batch: 122187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	8021B	122291
890-8992-2	BH01A	Total/NA	Solid	8021B	122291
MB 880-122192/5-A	Method Blank	Total/NA	Solid	8021B	122192
MB 880-122291/5-A	Method Blank	Total/NA	Solid	8021B	122291
LCS 880-122291/1-A	Lab Control Sample	Total/NA	Solid	8021B	122291
LCSD 880-122291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	122291
885-36205-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	122291
885-36205-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	122291

##### Prep Batch: 122192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-122192/5-A	Method Blank	Total/NA	Solid	5035	

##### Prep Batch: 122291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	5035	
890-8992-2	BH01A	Total/NA	Solid	5035	
MB 880-122291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-122291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-122291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
885-36205-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
885-36205-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

##### Analysis Batch: 122322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	Total BTEX	
890-8992-2	BH01A	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

##### Prep Batch: 122297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	8015NM Prep	
890-8992-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-122297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-122297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-122297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8992-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-8992-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

##### Analysis Batch: 122327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	8015B NM	122297
890-8992-2	BH01A	Total/NA	Solid	8015B NM	122297
MB 880-122297/1-A	Method Blank	Total/NA	Solid	8015B NM	122297
LCS 880-122297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	122297
LCSD 880-122297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	122297
890-8992-1 MS	BH01	Total/NA	Solid	8015B NM	122297
890-8992-1 MSD	BH01	Total/NA	Solid	8015B NM	122297

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

## GC Semi VOA

## Analysis Batch: 122343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Total/NA	Solid	8015 NM	
890-8992-2	BH01A	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 122286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Soluble	Solid	DI Leach	
890-8992-2	BH01A	Soluble	Solid	DI Leach	
MB 880-122286/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-122286/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-122286/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-64265-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-64265-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 122287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8992-1	BH01	Soluble	Solid	300.0	122286
890-8992-2	BH01A	Soluble	Solid	300.0	122286
MB 880-122286/1-A	Method Blank	Soluble	Solid	300.0	122286
LCS 880-122286/2-A	Lab Control Sample	Soluble	Solid	300.0	122286
LCSD 880-122286/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	122286
880-64265-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	122286
880-64265-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	122286

### Lab Chronicle

Client: Ensolum  
 Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
 SDG: 03C1558715

**Client Sample ID: BH01**

**Lab Sample ID: 890-8992-1**

Date Collected: 10/28/25 09:50

Matrix: Solid

Date Received: 10/28/25 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	122291	10/28/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	122187	10/29/25 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			122322	10/29/25 08:28	SA	EET MID
Total/NA	Analysis	8015 NM		1			122343	10/29/25 10:39	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	122297	10/29/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	122327	10/29/25 10:39	FC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	122286	10/29/25 08:26	SA	EET MID
Soluble	Analysis	300.0		1			122287	10/29/25 09:22	CS	EET MID

**Client Sample ID: BH01A**

**Lab Sample ID: 890-8992-2**

Date Collected: 10/28/25 10:05

Matrix: Solid

Date Received: 10/28/25 13:42

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	122291	10/28/25 20:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	122187	10/29/25 08:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			122322	10/29/25 08:49	SA	EET MID
Total/NA	Analysis	8015 NM		1			122343	10/29/25 11:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	122297	10/29/25 07:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	122327	10/29/25 11:24	FC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	122286	10/29/25 08:26	SA	EET MID
Soluble	Analysis	300.0		1			122287	10/29/25 09:36	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: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

#### Laboratory: Eurofins Midland

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

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

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

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

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### Method Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

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

**Protocol References:**

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



### Sample Summary

Client: Ensolum  
Project/Site: PLU BS 25 Fed Battery

Job ID: 890-8992-1  
SDG: 03C1558715

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8992-1	BH01	Solid	10/28/25 09:50	10/28/25 13:42	0.5
890-8992-2	BH01A	Solid	10/28/25 10:05	10/28/25 13:42	1

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# Chain of Custody

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

Environment Testing  
 Xenco



Worl

890-8992 Chain of Custody

www.xenco.com Page 1 of 1

**Work Order Comments**

Program:  RRP  Rowfields  RC  perfund

State of Project: Reporting: Level II  Level III  PST/UST  TRRP  Level IV

Deliverables: EDD  ADaPT  Other:

Project Manager: Jeremy Reich  
 Company Name: Ensolum  
 Address: 3122 National Parks Hwy  
 City, State ZIP: Carlsbad, NM 88220  
 Phone: 432-296-0627

Bill to: (if different) Robert Woodall  
 Company Name: XTO Energy, Inc  
 Address: 3104 E Greene St  
 City, State ZIP: Carlsbad, NM 88220  
 Email: kthomason, tmorrissey, thillard, jreich, bbeill@ensolum.com

**ANALYSIS REQUEST**

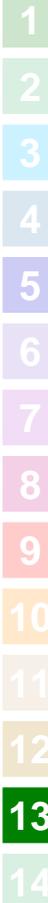
Project Name: PLU BS 25 Fed Battery  
 Project Number: 03C1558715  
 Project Location: 32.181786, -103.833445  
 Sampler's Name: Evan roe  
 PO #:   
**SAMPLE RECEIPT**  
 Samples Received Intact: Yes No  Yes  No Thermometer ID: *TTM007*  
 Cooler Custody Seals: Yes No  Yes  No Correction Factor: *-0.2*  
 Sample Custody Seals: Yes No  Yes  No Temperature Reading: *4.8*  
 Total Containers:   
 Temp Blank: Yes No  Yes  No Wet Ice:   
 Corrected Temperature: *4.6*

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Pres. Code	ANALYSIS REQUEST	Preservative Codes
							TP	RF			
BH01	Soil	10/28/2025	950	0.5	Grab	1	✓	✓		None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	DI Water: H <sub>2</sub> O MeOH: Me HNO <sub>3</sub> : HN NaOH: Na
BH01A	Soil	10/28/2025	1005	1	Grab	1	✓	✓		Incident ID: nAPP2430306088 CC: 1081011001 GFCM: 48605000	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1:42 10/28			



### Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8992-1

SDG Number: 03C1558715

**Login Number: 8992**

**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: 890-8992-1

SDG Number: 03C1558715

Login Number: 8992

List Source: Eurofins Midland

List Number: 2

List Creation: 10/29/25 07:45 AM

Creator: Laing, Edmundo

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

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## APPENDIX E

### Spill Volume Calculation

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<b>Location:</b>	<b>PLU BS 25 FED Battery</b>	
<b>Spill Date:</b>	<b>11/24/2024</b>	
<b>Area 1</b>		
Approximate Area =	2815.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.25	
<b>VOLUME OF LEAK</b>		
Total Crude Oil =	18.00	bbls
Total Produced Water =		bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	18.00	bbls
Total Produced Water =	0.00	bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	18.00	bbls
Total Produced Water =		bbls

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

QUESTIONS

Action 406258

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2433036088
Incident Name	NAPP2433036088 PLU BS 25 FED BATTERY @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU BS 25 FED Battery
Date Release Discovered	11/24/2024
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 18 BBL   Recovered: 18 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Leak at the heater treater to flare, all in full containment

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Oil Conservation Division  
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QUESTIONS, Page 2

Action 406258

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 11/25/2024
--	--

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QUESTIONS, Page 3

Action 406258

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**Remediation Plan**

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

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

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

CONDITIONS

Action 406258

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 406258
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	None	11/25/2024

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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 537305

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2433036088
Incident Name	NAPP2433036088 PLU BS 25 FED BATTERY @ 30-015-39018
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-39018] POKER LAKE UNIT CVX JV BS #005H

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	PLU BS 25 FED BATTERY
Date Release Discovered	11/24/2024
Surface Owner	Federal

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 18 BBL   Recovered: 18 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	Leak at the heater treater to flare, all in full containment

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 537305

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

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

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 12/23/2025
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 537305

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Site Characterization**

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

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

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	463
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	54.6
GRO+DRO (EPA SW-846 Method 8015M)	54.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	08/28/2025
On what date will (or did) the final sampling or liner inspection occur	08/28/2025
On what date will (or was) the remediation complete(d)	10/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	2905
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2905
What is the estimated volume (in cubic yards) that will be remediated	0

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

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

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QUESTIONS, Page 4

Action 537305

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	A 48-hour advanced notice of the liner inspection was submitted to the NMOCD on August 18, 2025. The lined containment was cleaned of all debris and power washed and a liner integrity inspection was conducted by Ensolum personnel on August 28, 2025.

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/23/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 537305

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	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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Action 537305

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	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>519060</b>
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	<b>10/28/2025</b>
What was the (estimated) number of samples that were to be gathered	<b>6</b>
What was the sampling surface area in square feet	<b>1200</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	2905
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2905
What was the total volume (in cubic yards) reclaimed	0

Summarize any additional remediation activities not included by answers (above)	<p>On November 24, 2024, equipment failure resulted in the release of approximately 18 bbls of crude oil into a lined containment; all fluids were recovered. The lined containment was power washed to remove residual fluids. On August 28, 2025. The lined containment was inspected, and a hole was observed on the floor of the liner near the central portion of the east wall. No damage was observed to the walls of the lined containment. Delineation beneath the hole was warranted. Four delineation soil samples were collected around the lined containment from ground surface to confirm the release remained within the lined containment walls. One borehole was advanced to a terminal depth of 1-foot bgs in the location of the hole in the liner. Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COCs were in compliance with Site Closure Criteria, confirming that the release was contained within the lined containment walls. Laboratory analytical results for delineation soil samples BH01 and BH01A indicated TPH and Chloride concentrations were in compliance with Site Closure Criteria at both 0.5 feet bgs and 1-foot bgs. Liner integrity inspection and delineation activities were completed following the November 24, 2024, release of crude oil within a lined containment at the Site. Laboratory analytical results for all delineation soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. Delineation of potential impacts at this Site determined that no soil that exceeded Site Closure Criteria below the lined containment. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. Based on the lateral and vertical delineation results, XTO respectfully requests closure for Incident Number nAPP2433036088.</p>
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*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.

Name: Richard Kotzur

I hereby agree and sign off to the above statement

Title: Senior Project Manager  
Email: NMEvNotifications@exxonmobil.com  
Date: 12/23/2025

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Action 537305

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	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 537305

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537305
	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".	2/16/2026