| | | |
|---|---|---|
| **Location:** | **PLU Battery 158** | |
| **Spill Date:** | **7/2/2025** | |
| **Incident #:** | **nAPP2518847280** | |

| **Area 1** | | |
|---|---|---|
| Approximate Area = | 1340 | sq. ft. |
| Average Saturation (or depth) of spill = | 0.10 | inches |
| | | |
| Average Porosity Factor = | 0.20 | |
| | | |
| VOLUME OF LEAK | | |
| Total Crude Oil = | 0.40 | bbls |
| Total Produced Water = | 0.00 | bbls |
| **TOTAL VOLUME OF LEAK** | | |
| **Total Crude Oil =** | **0.40** | **bbls** |
| **Total Produced Water =** | **0.0** | **bbls** |
| **TOTAL VOLUME RECOVERED** | | |
| **Total Crude Oil =** | **0.00** | **bbls** |
| **Total Produced Water =** | **0** | **bbls** |

ENSOLUM

September 29, 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 Battery 158**
**Incident Number NAPP2518847280**
**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 assessment, delineation, excavation, and soil sampling activities performed at the PLU Battery 158 (Site). The purpose of the remedial activities was to assess for the presence or absence of impacts to soil following a release of crude oil resulting from a flare fire. Based on confirmation soil sample laboratory analytical results, XTO is submitting this *Closure Request* for Incident Number NAPP2518847280.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 07, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.2380970°, -103.9144847°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 2, 2025, an equipment malfunction sent approximately 15 gallons of oil from the low pressure (LP) flair to the vapor recovery tower (VRT), resulting in a fire. There were no released fluids to recover. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via a Notification of Release (NOR) on July 07, 2025, and subsequently submitted a Release Notification Form C-141 (C-141) on July 08, 2025. The release was assigned Incident Number NAPP2518847280.

## 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 the nearest groundwater well data. On May 14, 2021, a soil boring (C-4526) was drilled approximately 0.50 miles northwest of the Site utilizing a truck-mounted rig with hollow stem auger. Soil boring C-4526 was drilled to a total depth of 105 feet bgs. A field geologist logged and described soils continuously. Slight moisture was observed but no saturation was encountered during drilling activites. The borehole was left open for 72 hours to allow for potential slow infill of groundwater. After this waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater

than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log for soil boring C-4526 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry riverine located approximately 3,645 feet southeast 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, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

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

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

## ASSESSMENT ACTIVITIES

On July 3, 2025, Ensolum personnel visited the Site to evaluate the release extent and soil staining from the fire based on information provided on the C-141 and visual observations. The release area was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was collected during the assessment activities and is included in the Photographic Log in Appendix B.

## SURFACE SCRAPE ACTIVITIES

Based on the location of the release, BLM land access approval was required prior to conducting remedial activities with mechanical equipment. XTO submitted a Form 3160-5 (Sundry) to the BLM to request access to the pasture soils on July 17, 2025. XTO received an approved Sundry, granting access to complete remediation on July 23, 2025. The approved Sundry presented in Appendix C.

On August 4, 2025, Ensolum personnel returned to the Site to oversee surface scraping activities. The entirety of the surficial staining caused by the release was scraped to approximately 0.25 feet bgs utilizing heavy equipment. Following surface scraping activities, Ensolum personnel collected seven composite soil samples (CS01 through CS07) representing no more than 200 square feet from the scraped area. Composite soil samples CS01 and CS02 were collected from the pad surface at a depth of approximately 0.25 feet bgs, and samples CS03 through CS07 were collected from the pasture surface at a depth of approximately 0.25 feet bgs. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. All soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test

strips. The surface scrape extent and composite soil sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2. Photographic documentation of the surface scrape and composite soil sampling activities are included in Appendix B.

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

Laboratory analytical results for all composite soil samples collected indicated all COC concentrations were below the Site Closure Criteria. Laboratory analytical results for confirmation soil samples CS01 and CS02, collected on the pad surface, in the vicinity of the flare and surface piping, indicated COC concentrations were in compliance with Site Closure Criteria. Laboratory analytical results for composite soil sample CS03, collected from the pasture surface, indicated all COC concentrations were in compliance with Site Closure Criteria and reclamation standards. Confirmation soil samples CS04 through CS07, collected in the pasture surface, indicated all COC concentrations were in compliance with Closure Criteria, but exceeded reclamation standards. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included in Appendix D. Based upon the confirmation soil sample laboratory results, additional remedial activities were necessary.

## DELINEATION, EXCAVATION, AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Between August 19 and September 9, 2025, Ensolum personnel returned to the Site to oversee lateral delineation and excavation of impacted soil based on laboratory analytical results collected from the composite soil samples. Four discrete delineation soil samples (SS01 through SS04) were collected from outside the release extent at ground surface to assess the lateral extent of the release. The delineation soil samples were collected and handled in the same manner as described above and their locations are provided on Figure 2.

Impacted soil was excavated from the release extent as indicated by composite soil sample laboratory analytical results. Excavation activities were performed in the pasture utilizing a backhoe and transport vehicles. To direct excavation activities, soil was field screened as described above. The excavation was completed to a terminal depth of 1-foot bgs as shown on Figure 3. Photographic documentation of all delineation and excavation activities is included in Appendix B.

Following the removal of impacted soil in the pasture, five composite soil samples (FS01 through FS04, and SW01) were collected representing no more than 200 square feet from the sidewalls and floor of the excavation. The composite samples were collected in the same manner as described above. Confirmation soil samples (FS01 through FS04) were collected from the floor of the excavation from a depth of 1-foot bgs. Confirmation soil sample SW01 was collected from the sidewalls of the excavation at a depth ranging from ground surface to 1-foot bgs. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the same COCs mentioned above, with the exception that chloride was analyzed following method SM4500.

The final surface scrape area measured to approximately 1,340 square feet on the flare pad and in the pasture. The final excavation area measured to approximately 685 square feet. An estimated 38 cubic yards of soil was removed during the surface scraping and excavation activities. The excavated soil is

in the process of being transported and properly disposed of at the Northern Delaware Basin Landfill facility. Waste manifests will be made available upon request.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples, and final excavation confirmation floor and sidewall soil samples collected indicated that all COC concentrations were compliant with the Site Closure Criteria and reclamation standards. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

Assessment, surface scrape, delineation, excavation, and soil sampling activities were conducted at the Site to address the July 3, 2025, flare fire release. Laboratory analytical results for all final confirmation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation standards where applicable. Confirmation soil samples (FS01 through FS04) collected from the floor of the excavation, along with composite soil samples (CS01 through CS03) indicated all COC concentrations were in compliance with Site Closure Criteria and/or reclamation standards, successfully defining the vertical extent of the release. Delineation soil samples (SS01 through SS04), along with confirmation soil sample SW01 collected from the sidewall of the excavation, indicated all COC concentrations were in compliance with reclamation standards, successfully defining the lateral extent of the release. Based on laboratory analytical results, no further remediation was required. Approximately 14 cubic yards of waste containing soil was left in place within the fenced flare pad boundary based off the depth of the adjacent excavation. The remaining area, in the pasture, outside the fenced pad boundary meets the reclamation requirements. The excavation will be backfilled with locally procured clean fill material, and the Site will be recontoured to match pre-existing Site conditions. The pasture area will subsequently be seeded with a BLM approved seed mixture.

Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2518847280.

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

Sincerely,
**Ensolum, LLC**

Jeremy Reich
Project Geologist

Benjamin J. Belill
Senior Geologist

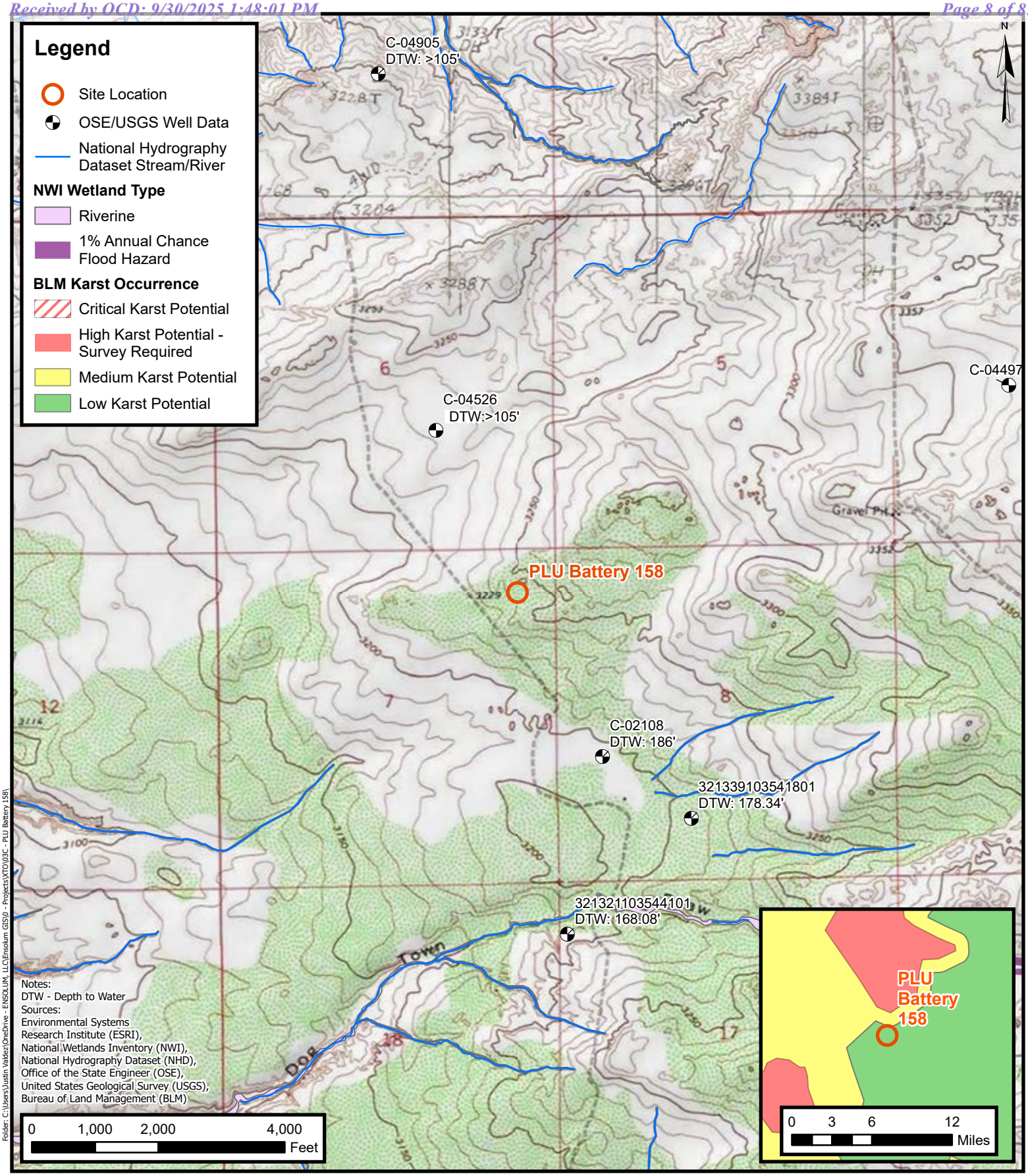
cc: Robert Woodall, XTO,
Richard Kotzur, XTO,
BLM

Appendices:

| | |
|---|---|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3 | Confirmation Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Referenced Well Records |
| Appendix B | Photographic Log |
| Appendix C | BLM Land Access Approval |
| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |

ENSOLUM

# FIGURES



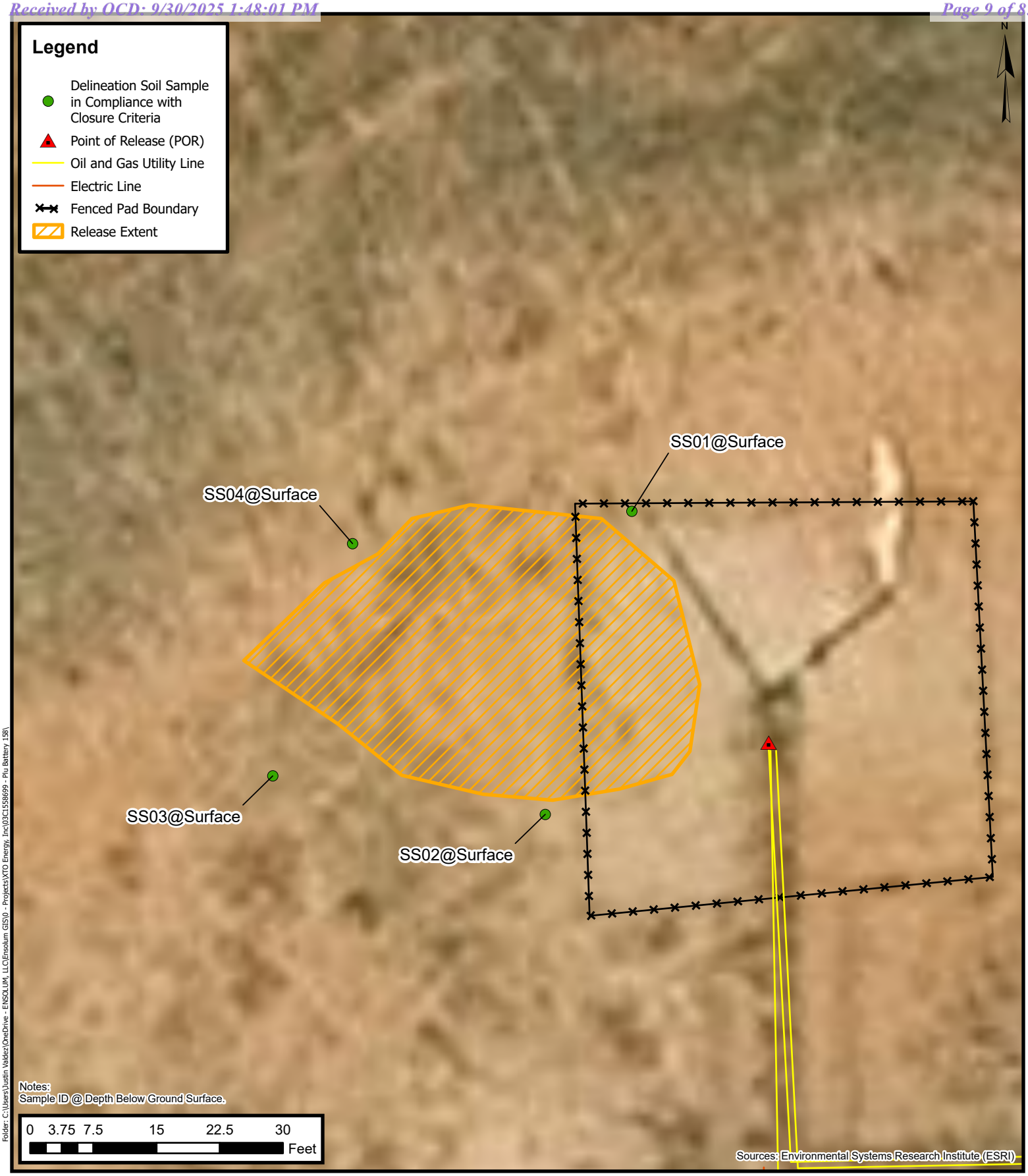

Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO\03C - PLU Battery 158\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Site Receptor Map

XTO Energy, Inc.
PLU Battery 158
Incident Number: NAPP2518847280
Unit A, Section 07, T 24S, R 30E
Eddy County, New Mexico

**FIGURE 1**



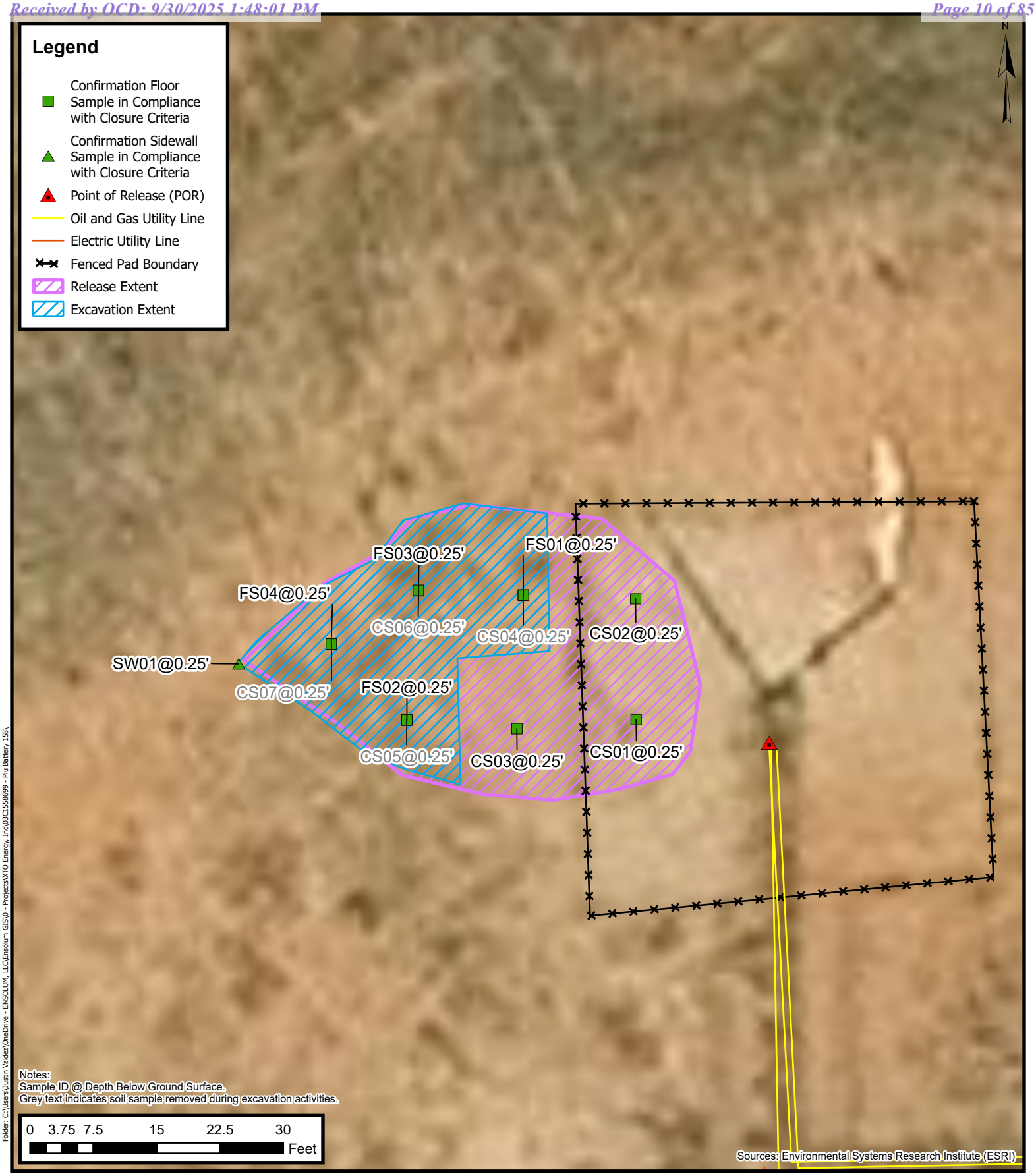

Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1598699 - Plu Battery 158\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Delineation Soil Sample Locations

XTO Energy, Inc
PLU Battery 158
Incident Number: NAPP2518847280
Unit A, Section 07, T 24S, R 30E
Eddy County, New Mexico

**FIGURE 2**




Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1598699 - Plu Battery 158\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

# Confirmation Soil Sample Location

XTO Energy, Inc
PLU Battery 158
Incident Number: NAPP2518847280
Unit A, Section 07, T 24S, R 30E
Eddy County, New Mexico

**FIGURE 3**

ENSOLUM

# TABLES

ENSOLUM

# TABLE 1
## SOIL SAMPLE ANALYTICAL RESULTS
## PLU Battery 158
## XTO Energy, Inc
## Incident Number nAPP2518847280

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| **Delineation Soil Samples** | | | | | | | | | | |
| SS01 | 09/09/2025 | Surface | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SS02 | 09/09/2025 | Surface | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| SS03 | 09/09/2025 | Surface | <0.050 | <0.300 | <10.0 | 32.8 | <10.0 | 32.8 | 32.8 | <16.0 |
| SS04 | 09/09/2025 | Surface | <0.050 | <0.300 | <10.0 | 28.4 | <10.0 | 28.4 | 28.4 | 16.0 |
| **Composite Soil Samples** | | | | | | | | | | |
| CS01 | 08/04/2025 | 0.25 | <0.00200 | <0.00400 | <49.8 | 527 | <49.8 | 527 | 527 | <9.98 |
| CS02 | 08/04/2025 | 0.25 | <0.00198 | <0.00397 | <49.8 | 877 | <49.8 | 877 | 877 | <9.94 |
| CS03 | 08/04/2025 | 0.25 | <0.00198 | <0.00396 | <50.0 | 60.3 | <50.0 | 60.3 | 60.3 | <10.0 |
| ~~CS04~~ | ~~08/04/2025~~ | ~~0.25~~ | ~~<0.00201~~ | ~~<0.00402~~ | ~~<49.9~~ | ~~381~~ | ~~<49.9~~ | ~~381~~ | ~~**381**~~ | ~~<9.96~~ |
| ~~CS05~~ | ~~08/04/2025~~ | ~~0.25~~ | ~~<0.00199~~ | ~~<0.00398~~ | ~~<50.0~~ | ~~635~~ | ~~<50.0~~ | ~~635~~ | ~~**635**~~ | ~~<9.96~~ |
| ~~CS06~~ | ~~08/04/2025~~ | ~~0.25~~ | ~~<0.00202~~ | ~~<0.00404~~ | ~~<49.8~~ | ~~483~~ | ~~<49.8~~ | ~~483~~ | ~~**483**~~ | ~~<10.0~~ |
| ~~CS07~~ | ~~08/04/2025~~ | ~~0.25~~ | ~~<0.00202~~ | ~~<0.00403~~ | ~~<49.9~~ | ~~411~~ | ~~<49.9~~ | ~~411~~ | ~~**411**~~ | ~~<10.1~~ |
| **Confirmation Soil Samples** | | | | | | | | | | |
| FS01 | 08/21/2025 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| FS02 | 08/21/2025 | 1 | <0.050 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <16.0 |
| FS03 | 08/21/2025 | 1 | <0.050 | <0.300 | <10.0 | 14.3 | <10.0 | 14.3 | 14.3 | <16.0 |
| FS04 | 08/21/2025 | 1 | <0.050 | <0.300 | <10.0 | 12.3 | <10.0 | 12.3 | 12.3 | 32.0 |
| SW01 | 08/21/2025 | 0-1 | <0.050 | <0.300 | <10.0 | 17.7 | <10.0 | 17.7 | 17.7 | <16.0 |

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

ENSOLUM

# APPENDIX A

## Referenced Well Records

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

**1. GENERAL AND WELL LOCATION**

| OSE POD NO. (WELL NO.) | WELL TAG ID NO. | OSE FILE NO(S). |
|---|---|---|
| POD1 (MW-1) | n/a | C-4526 |

| WELL OWNER NAME(S) | PHONE (OPTIONAL) |
|---|---|
| XTO Energy (Kyle Littrell) | |

| WELL OWNER MAILING ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|
| 6401 Holiday Hill Dr. | Midland | TX | 79707 |

| WELL LOCATION (FROM GPS) | | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|---|
| | LATITUDE | 32° | 14' | 42.15" | N |
| | LONGITUDE | 103° | 55' | 6.20" | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NW NE Sec. 06 T24S R30E

**2. DRILLING & CASING INFORMATION**

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| 1249 | Jackie D. Atkins | Atkins Engineering Associates, Inc. |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 05/14/2021 | 05/14/2021 | temporary well material | 105 | n/a |

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | 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) |
|---|---|---|---|---|---|---|---|
| 0 | 105 | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

**3. ANNULAR MATERIAL**

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

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

| FILE NO. | C-4526 | POD NO. | 1 | TRN NO. | 692109 |
|---|---|---|---|---|---|
| LOCATION | Exp1 24S.30E.6.414 | | | WELL TAG ID NO. | PAGE 1 OF 2 |

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0 | 4 | 4 | SAND, poorly graded, fine-very grained, Reddish-brown, dry | Y ✓ N | |
| 4 | 12 | 8 | CALICHE, poorly-mod. consolidated, tan-off white, dry | Y ✓ N | |
| 12 | 19 | 7 | SAND, poorly graded, fine-very grained, some caliche gravel, Tan ,dry | Y ✓ N | |
| 19 | 24 | 5 | SAND, poorly graded, fine-very grained, some caliche gravel, Light- Brown, dry | Y ✓ N | |
| 24 | 72 | 48 | SAND, poorly graded, fine-very grained, Reddish Brown, moist | Y ✓ N | |
| 72 | 92 | 20 | SAND, poorly graded, fine-very grained, some silt, Reddish Brown, moist | Y ✓ N | |
| 92 | 102 | 10 | SILTY SAND, poorly graded, fine-very grained, Reddish Brown, moist | Y ✓ N | |
| 102 | 105 | 3 | SILTY SAND, poorly graded, fine-very grained, Reddish Brown, dry | Y ✓ N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

**5. TEST; RIG SUPERVISION**

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Carmelo Trevino, Cameron Pruitt

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 06/09/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

| FILE NO. C-4526 | POD NO. 1 | TRN NO. 692109 |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 2 OF 2 |

OSE DIT JUN 10 2021 PM2:47

ENSOLUM

# APPENDIX B

## Photographic Log

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
PLU Battery 158
NAPP2518847280


Photograph: 1 Date: 7/3/2025
Description: Stained Area
View: East


Photograph: 2 Date: 7/3/2025
Description: Stained Area
View: Southwest


Photograph: 3 Date: 8/4/2025
Description: Scraped Area near CS7, CS06, CS05, CS04, CS03
View: Northeast

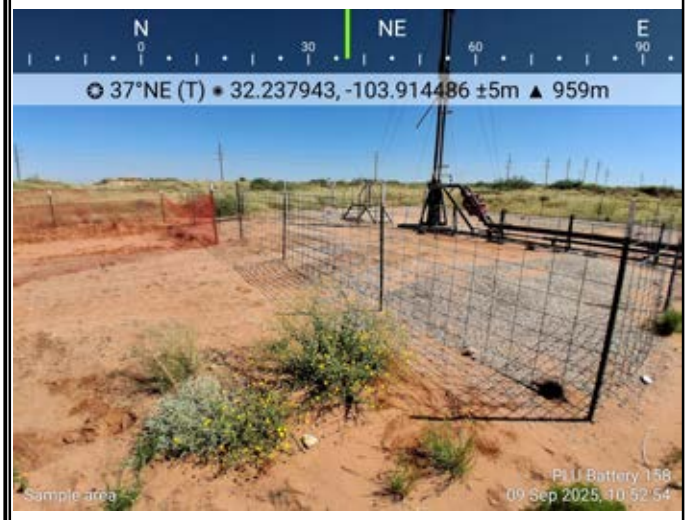

Photograph: 4 Date: 8/19/2025
Description: Scraped area near CS01, CS02
View: North

ENSOLUM

**Photographic Log**
XTO Energy, Inc.
PLU Battery 158
NAPP2518847280


Photograph: 5 Date: 8/19/2025
Description: Excavation activities near FS01, FS02, FS03, FS04, SW01
View: Northeast


Photograph: 6 Date: 8/21/2025
Description: Sampling activities near FS01, FS02, FS03, FS04, SW01
View: South




Photograph: 7 Date: 9/9/2025
Description: Lateral delineation near SS02
View: Northeast


Photograph: 8 Date: 9/9/2025
Description: Lateral delineation near SS01
View: Southwest

ENSOLUM

# APPENDIX C

# BLM Land Access Approval

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Sundry Print Report
07/23/2025



**Well Name:** POKER LAKE UNIT

**Well Location:** T24S / R30E / SEC 7 / NENE / 32.2375993 / -103.9142674

**County or Parish/State:** EDDY / NM

**Well Number:** 158

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMLC068545

**Unit or CA Name:** POKER LAKE DELAWARE C

**Unit or CA Number:** NMNM71016G

**US Well Number:** 3001531690

**Operator:** XTO PERMIAN OPERATING LLC

## Notice of Intent

**Sundry ID:** 2863906

**Type of Submission:** Notice of Intent

**Type of Action:** Other

**Date Sundry Submitted:** 07/17/2025

**Time Sundry Submitted:** 01:10

**Date proposed operation will begin:** 07/24/2025

**Procedure Description:** XTO Permian Operating LLC. (XTO), respectfully requests access to an off-pad pasture area, adjacent to an active lease pad, located 122 feet northwest of the Poker Lake Unit #158 well. Access is needed in order to complete remediation activities related to a flare fire that occurred on July 2, 2025 (Incident Number NAPP2518847280). The Poker Lake Unit # 158 well is the closest XTO well located on BLM land. The fire occurred at GPS 32.23804, -103.91437 along the northwest corner of the pad and pasture area. Excavation of impacted soil is needed utilizing heavy equipment (backhoe, trackhoe, loader, and hydrovaccum truck). After successful completion of remediation efforts, the disturbed area will be backfilled with top soil purchased locally and re-countoured to match pre-existing site conditions and re-seeded with the recommended BLM seed mixture. Excavation activities will begin within 90 days following the approval of this request.

## Surface Disturbance

**Is any additional surface disturbance proposed?:** Yes

**Proposed Disturbance(acres):** 0.18

**Interim Reclamation (acres):** 0.0

**Long Term Disturbance (acres):** 0.0

**Surface Disturbance:**

## NOI Attachments

**Procedure Description**

PLU_Battery_158_Requested_Disturbance_Site_Map___NAPP2518847280_20250717130819.pdf

| | | |
|---|---|---|
| **Well Name:** POKER LAKE UNIT | **Well Location:** T24S / R30E / SEC 7 / NENE / 32.2375993 / -103.9142674 | **County or Parish/State:** EDDY / NM |
| **Well Number:** 158 | **Type of Well:** OIL WELL | **Allottee or Tribe Name:** |
| **Lease Number:** NMLC068545 | **Unit or CA Name:** POKER LAKE DELAWARE C | **Unit or CA Number:** NMNM71016G |
| **US Well Number:** 3001531690 | **Operator:** XTO PERMIAN OPERATING LLC | |

## Operator

*I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** SHERRY MORROW

**Signed on:** JUL 17, 2025 01:09 PM

**Name:** XTO PERMIAN OPERATING LLC

**Title:** Regulatory Analyst

**Street Address:** 6401 HOLIDAY HILL ROAD BLDG 5

**City:** MIDLAND **State:** TX

**Phone:** (432) 218-3671

**Email address:** SHERRY.MORROW@EXXONMOBIL.COM

## Field

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

## BLM Point of Contact

**BLM POC Name:** CRISHA A MORGAN

**BLM POC Title:** Environmental Protection Specialist

**BLM POC Phone:** 5752345987

**BLM POC Email Address:** camorgan@blm.gov

**Disposition:** Approved

**Disposition Date:** 07/23/2025

**Signature:** CRISHA A. MORGAN

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE*** *- Other instructions on page 2*

5. Lease Serial No. NMLC068545

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE DELAWARE C/NMNM71016G

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT/158

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001531690

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area NASH DRAW-DELAWARE/NASH DRAW-DELAWARE

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 7/T24S/R30E/NMP

11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☑ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Subsequent Report | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☑ Other |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Final Abandonment Notice | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating LLC. (XTO), respectfully requests access to an off-pad pasture area, adjacent to an active lease pad, located 122 feet northwest of the Poker Lake Unit #158 well. Access is needed in order to complete remediation activities related to a flare fire that occurred on July 2, 2025 (Incident Number NAPP2518847280). The Poker Lake Unit # 158 well is the closest XTO well located on BLM land. The fire occurred at GPS 32.23804, -103.91437 along the northwest corner of the pad and pasture area. Excavation of impacted soil is needed utilizing heavy equipment (backhoe, trackhoe, loader, and hydrovaccum truck). After successful completion of remediation efforts, the disturbed area will be backfilled with top soil purchased locally and re-countoured to match pre-existing site conditions and re-seeded with the recommended BLM seed mixture. Excavation activities will begin within 90 days following the approval of this request.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* SHERRY MORROW / Ph: (432) 218-3671

Title Regulatory Analyst

Signature (Electronic Submission)

Date 07/17/2025

**THE SPACE FOR FEDERAL OR STATE OFICE USE**

Approved by CRISHA A MORGAN / Ph: (575) 234-5987 / Approved

Title Environmental Protection Specialis

Date 07/23/2025

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13:* Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

## Additional Information

### Location of Well

0. SHL: NENE / 660 FNL / 660 FEL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.2375993 / LONG: -103.9142674 ( TVD: 0 feet, MD: 0 feet )

PPP: NENE / 660 FNL / 660 FEL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

BHL: NENE / 660 FNL / 660 FEL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 0.0 / LONG: 0.0 ( TVD: 0 feet, MD: 0 feet )

ENSOLUM

# APPENDIX D

## Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 8/8/2025 9:53:20 AM Revision 1

## JOB DESCRIPTION

PLU BATTERY 158
03C1558699

## JOB NUMBER

890-8580-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

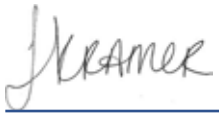
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated
8/8/2025 9:53:20 AM
Revision 1

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

Client: Ensolum
Project/Site: PLU BATTERY 158

Laboratory Job ID: 890-8580-1
SDG: 03C1558699

# Table of Contents

# Definitions/Glossary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Qualifiers

### GC VOA

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

### GC Semi VOA

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

### HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Ensolum
Project: PLU BATTERY 158

Job ID: 890-8580-1

## Job ID: 890-8580-1 Eurofins Carlsbad

**Job Narrative**
**890-8580-1**

REVISION

The report being provided is a revision of the original report sent on 8/7/2025. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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

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

**Receipt**
The samples were received on 8/6/2025 11:20 AM. 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 4.0°C.

**Receipt Exceptions**
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 01 (890-8580-1), CS 02 (890-8580-2), CS 03 (890-8580-3), CS 04 (890-8580-4), CS 05 (890-8580-5), CS 06 (890-8580-6) and CS 07 (890-8580-7).

**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: Surrogate recovery for the following samples were outside control limits: CS 01 (890-8580-1), CS 02 (890-8580-2), (890-8580-A-1-F MS) and (890-8580-A-1-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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.

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 01

**Date Collected: 08/04/25 12:26**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-1**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *114* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 04:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 04:35* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 08/07/25 04:35 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **527** | | 49.8 | | mg/Kg | | | 08/07/25 00:00 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 00:00 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **527** | | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 00:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 00:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 00:00* | *1* |
| *o-Terphenyl* | *134* | *S1+* | *70 - 130* | *08/07/25 07:32* | *08/07/25 00:00* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <9.98 | U | 9.98 | | mg/Kg | | | 08/07/25 04:33 | 1 |

## Client Sample ID: CS 02

**Date Collected: 08/04/25 12:29**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-2**
**Matrix: Solid**

### 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 | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 04:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 04:55* | *1* |

Eurofins Carlsbad

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 02

**Date Collected: 08/04/25 12:29**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-2**
**Matrix: Solid**

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

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *93* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 04:55* | *1* |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 08/07/25 04:55 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **877** | | 49.8 | mg/Kg | | | 08/07/25 12:19 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 08/06/25 14:26 | 08/07/25 12:19 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **877** | | 49.8 | mg/Kg | | 08/06/25 14:26 | 08/07/25 12:19 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 08/06/25 14:26 | 08/07/25 12:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *118* | | *70 - 130* | *08/06/25 14:26* | *08/07/25 12:19* | *1* |
| *o-Terphenyl* | *114* | | *70 - 130* | *08/06/25 14:26* | *08/07/25 12:19* | *1* |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chloride | <9.94 | U | 9.94 | mg/Kg | | | 08/07/25 04:56 | 1 |

## Client Sample ID: CS 03

**Date Collected: 08/04/25 12:49**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-3**
**Matrix: Solid**

### 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 | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:16* | *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 | | | 08/07/25 05:16 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **60.3** | | 50.0 | mg/Kg | | | 08/07/25 01:00 | 1 |

Eurofins Carlsbad

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 03

**Date Collected: 08/04/25 12:49**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-3**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:00 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **60.3** | | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:00* | *1* |
| *o-Terphenyl* | *111* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:00* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 08/07/25 05:04 | 1 |

## Client Sample ID: CS 04

**Date Collected: 08/04/25 12:53**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-4**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:36* | *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 | | | 08/07/25 05:36 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **381** | | 49.9 | | mg/Kg | | | 08/07/25 01:14 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:14 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **381** | | 49.9 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:14 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:14* | *1* |
| *o-Terphenyl* | *115* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:14* | *1* |

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 04
**Date Collected: 08/04/25 12:53**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

## Lab Sample ID: 890-8580-4
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <9.96 | U | 9.96 | | mg/Kg | | | 08/07/25 05:11 | 1 |

## Client Sample ID: CS 05
**Date Collected: 08/04/25 13:12**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

## Lab Sample ID: 890-8580-5
**Matrix: Solid**

### 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 | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 05:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:57* | *1* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 05:57* | *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 | | | 08/07/25 05:57 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **635** | | 50.0 | | mg/Kg | | | 08/07/25 01:29 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:29 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **635** | | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:29 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:29* | *1* |
| *o-Terphenyl* | *115* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:29* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <9.96 | U | 9.96 | | mg/Kg | | | 08/07/25 05:19 | 1 |

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 06

**Date Collected: 08/04/25 13:13**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-6**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 06:17* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 06:17* | *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 | | | 08/07/25 06:17 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **483** | | 49.8 | | mg/Kg | | | 08/07/25 01:44 | 1 |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:44 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **483** | | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:44 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:44* | *1* |
| *o-Terphenyl* | *118* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:44* | *1* |

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 08/07/25 05:42 | 1 |

## Client Sample ID: CS 07

**Date Collected: 08/04/25 13:28**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

**Lab Sample ID: 890-8580-7**
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 08/06/25 21:00 | 08/07/25 06:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 06:38* | *1* |

Eurofins Carlsbad

# Client Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 07

**Date Collected: 08/04/25 13:28**
**Date Received: 08/06/25 11:20**
**Sample Depth: 0.25**

## Lab Sample ID: 890-8580-7

**Matrix: Solid**

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *08/06/25 21:00* | *08/07/25 06:38* | *1* |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 08/07/25 06:38 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| **Total TPH** | **411** | | 49.9 | mg/Kg | | | 08/07/25 01:58 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:58 | 1 |
| **Diesel Range Organics (Over C10-C28)** | **411** | | 49.9 | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/07/25 07:32 | 08/07/25 01:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *95* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:58* | *1* |
| *o-Terphenyl* | *111* | | *70 - 130* | *08/07/25 07:32* | *08/07/25 01:58* | *1* |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chloride | <10.1 | U | 10.1 | mg/Kg | | | 08/07/25 05:49 | 1 |

# Surrogate Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## 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) |
| 880-61170-A-1-A MS | Matrix Spike | 101 | 104 |
| 880-61170-A-1-B MSD | Matrix Spike Duplicate | 108 | 106 |
| 890-8580-1 | CS 01 | 114 | 94 |
| 890-8580-2 | CS 02 | 106 | 93 |
| 890-8580-3 | CS 03 | 99 | 98 |
| 890-8580-4 | CS 04 | 104 | 91 |
| 890-8580-5 | CS 05 | 106 | 96 |
| 890-8580-6 | CS 06 | 110 | 97 |
| 890-8580-7 | CS 07 | 104 | 97 |
| LCS 880-115979/1-A | Lab Control Sample | 96 | 101 |
| LCSD 880-115979/2-A | Lab Control Sample Dup | 105 | 106 |
| MB 880-115940/5-A | Method Blank | 99 | 97 |
| MB 880-115979/5-A | Method Blank | 96 | 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) |
| 880-61189-A-1-B MS | Matrix Spike | 105 | 98 |
| 880-61189-A-1-C MSD | Matrix Spike Duplicate | 89 | 82 |
| 890-8580-1 | CS 01 | 100 | 134 S1+ |
| 890-8580-1 MS | CS 01 | 114 | 135 S1+ |
| 890-8580-1 MSD | CS 01 | 116 | 133 S1+ |
| 890-8580-2 | CS 02 | 118 | 114 |
| 890-8580-3 | CS 03 | 100 | 111 |
| 890-8580-4 | CS 04 | 100 | 115 |
| 890-8580-5 | CS 05 | 98 | 115 |
| 890-8580-6 | CS 06 | 98 | 118 |
| 890-8580-7 | CS 07 | 95 | 111 |
| LCS 880-116007/2-A | Lab Control Sample | 112 | 105 |
| LCS 880-116031/2-A | Lab Control Sample | 121 | 122 |
| LCSD 880-116007/3-A | Lab Control Sample Dup | 128 | 125 |
| LCSD 880-116031/3-A | Lab Control Sample Dup | 120 | 121 |
| MB 880-116007/1-A | Method Blank | 103 | 101 |
| MB 880-116031/1-A | Method Blank | 108 | 121 |

**Surrogate Legend**

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: MB 880-115940/5-A**
**Matrix: Solid**
**Analysis Batch: 115927**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 115940**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 09:03 | 08/06/25 11:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *99* | | *70 - 130* | *08/06/25 09:03* | *08/06/25 11:36* | *1* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* | *08/06/25 09:03* | *08/06/25 11:36* | *1* |

**Lab Sample ID: MB 880-115979/5-A**
**Matrix: Solid**
**Analysis Batch: 115927**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 115979**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/06/25 11:26 | 08/06/25 22:34 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* | *08/06/25 11:26* | *08/06/25 22:34* | *1* |
| *1,4-Difluorobenzene (Surr)* | *91* | | *70 - 130* | *08/06/25 11:26* | *08/06/25 22:34* | *1* |

**Lab Sample ID: LCS 880-115979/1-A**
**Matrix: Solid**
**Analysis Batch: 115927**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 115979**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.09652 | | mg/Kg | | 97 | 70 - 130 | | |
| Toluene | | | 0.100 | 0.09198 | | mg/Kg | | 92 | 70 - 130 | | |
| Ethylbenzene | | | 0.100 | 0.1046 | | mg/Kg | | 105 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 0.200 | 0.2076 | | mg/Kg | | 104 | 70 - 130 | | |
| o-Xylene | | | 0.100 | 0.1044 | | mg/Kg | | 104 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *101* | | *70 - 130* |

**Lab Sample ID: LCSD 880-115979/2-A**
**Matrix: Solid**
**Analysis Batch: 115927**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 115979**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1007 | | mg/Kg | | 101 | 70 - 130 | 4 | 35 |

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: LCSD 880-115979/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 115927** — **Prep Batch: 115979**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 0.100 | 0.09732 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |
| Ethylbenzene | | | 0.100 | 0.1105 | | mg/Kg | | 110 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2210 | | mg/Kg | | 110 | 70 - 130 | 6 | 35 |
| o-Xylene | | | 0.100 | 0.1112 | | mg/Kg | | 111 | 70 - 130 | 6 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

**Lab Sample ID: 880-61170-A-1-A MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 115927** — **Prep Batch: 115979**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.100 | 0.09907 | | mg/Kg | | 99 | 70 - 130 |
| Toluene | <0.00200 | U | 0.100 | 0.09128 | | mg/Kg | | 91 | 70 - 130 |
| Ethylbenzene | <0.00200 | U | 0.100 | 0.09983 | | mg/Kg | | 100 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.200 | 0.1956 | | mg/Kg | | 98 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.100 | 0.09773 | | mg/Kg | | 98 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: 880-61170-A-1-B MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 115927** — **Prep Batch: 115979**

| 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 | 0.09529 | | mg/Kg | | 95 | 70 - 130 | 4 | 35 |
| Toluene | <0.00200 | U | 0.100 | 0.08956 | | mg/Kg | | 90 | 70 - 130 | 2 | 35 |
| Ethylbenzene | <0.00200 | U | 0.100 | 0.09802 | | mg/Kg | | 98 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.200 | 0.1928 | | mg/Kg | | 96 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00200 | U | 0.100 | 0.09606 | | mg/Kg | | 96 | 70 - 130 | 2 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* |

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

**Lab Sample ID: MB 880-116007/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 116109** — **Prep Batch: 116007**

| 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 | | 08/06/25 14:26 | 08/07/25 09:22 | 1 |

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: MB 880-116007/1-A**
**Matrix: Solid**
**Analysis Batch: 116109**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 116007**

| Analyte | MB Result | MB Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 08/06/25 14:26 | 08/07/25 09:22 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/06/25 14:26 | 08/07/25 09:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *103* | | *70 - 130* | *08/06/25 14:26* | *08/07/25 09:22* | *1* |
| *o-Terphenyl* | *101* | | *70 - 130* | *08/06/25 14:26* | *08/07/25 09:22* | *1* |

**Lab Sample ID: LCS 880-116007/2-A**
**Matrix: Solid**
**Analysis Batch: 116109**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 116007**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1048 | | mg/Kg | | 105 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1049 | | mg/Kg | | 105 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* |
| *o-Terphenyl* | *105* | | *70 - 130* |

**Lab Sample ID: LCSD 880-116007/3-A**
**Matrix: Solid**
**Analysis Batch: 116109**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 116007**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1238 | | mg/Kg | | 124 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1282 | | mg/Kg | | 128 | 70 - 130 | 20 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *128* | | *70 - 130* |
| *o-Terphenyl* | *125* | | *70 - 130* |

**Lab Sample ID: 880-61189-A-1-B MS**
**Matrix: Solid**
**Analysis Batch: 116109**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 116007**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 996 | 907.4 | | mg/Kg | | 91 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 996 | 897.8 | | mg/Kg | | 88 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *105* | | *70 - 130* |
| *o-Terphenyl* | *98* | | *70 - 130* |

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: 880-61189-A-1-C MSD**
**Matrix: Solid**
**Analysis Batch: 116109**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 116007**

| 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 | 996 | 795.1 | | mg/Kg | | 80 | 70 - 130 | 13 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 996 | 755.7 | | mg/Kg | | 74 | 70 - 130 | 17 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *89* | | *70 - 130* |
| *o-Terphenyl* | *82* | | *70 - 130* |

**Lab Sample ID: MB 880-116031/1-A**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| 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 | | 08/07/25 07:32 | 08/06/25 23:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/06/25 23:16 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/07/25 07:32 | 08/06/25 23:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *108* | | *70 - 130* | *08/07/25 07:32* | *08/06/25 23:16* | *1* |
| *o-Terphenyl* | *121* | | *70 - 130* | *08/07/25 07:32* | *08/06/25 23:16* | *1* |

**Lab Sample ID: LCS 880-116031/2-A**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1038 | | mg/Kg | | 104 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1129 | | mg/Kg | | 113 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *121* | | *70 - 130* |
| *o-Terphenyl* | *122* | | *70 - 130* |

**Lab Sample ID: LCSD 880-116031/3-A**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1030 | | mg/Kg | | 103 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1084 | | mg/Kg | | 108 | 70 - 130 | 4 | 20 |

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: LCSD 880-116031/3-A**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 120 | | 70 - 130 |
| o-Terphenyl | 121 | | 70 - 130 |

**Lab Sample ID: 890-8580-1 MS**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: CS 01**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 999 | 792.5 | | mg/Kg | | 79 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 527 | | 999 | 1355 | | mg/Kg | | 83 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 114 | | 70 - 130 |
| o-Terphenyl | 135 | S1+ | 70 - 130 |

**Lab Sample ID: 890-8580-1 MSD**
**Matrix: Solid**
**Analysis Batch: 115935**

**Client Sample ID: CS 01**
**Prep Type: Total/NA**
**Prep Batch: 116031**

| 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 | <49.8 | U | 999 | 777.9 | | mg/Kg | | 78 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | 527 | | 999 | 1311 | | mg/Kg | | 79 | 70 - 130 | 3 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 116 | | 70 - 130 |
| o-Terphenyl | 133 | S1+ | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-116028/1-A**
**Matrix: Solid**
**Analysis Batch: 116029**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | mg/Kg | | | 08/07/25 04:10 | 1 |

**Lab Sample ID: LCS 880-116028/2-A**
**Matrix: Solid**
**Analysis Batch: 116029**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 253.4 | | mg/Kg | | 101 | 90 - 110 |

# QC Sample Results

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

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

**Lab Sample ID: LCSD 880-116028/3-A**
**Matrix: Solid**
**Analysis Batch: 116029**

**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: 890-8580-1 MS**
**Matrix: Solid**
**Analysis Batch: 116029**

**Client Sample ID: CS 01**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <9.98 | U | 250 | 268.0 | | mg/Kg | | 105 | 90 - 110 | | |

**Lab Sample ID: 890-8580-1 MSD**
**Matrix: Solid**
**Analysis Batch: 116029**

**Client Sample ID: CS 01**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | <9.98 | U | 250 | 266.1 | | mg/Kg | | 104 | 90 - 110 | 1 | 20 |

# QC Association Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## GC VOA

### Analysis Batch: 115927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-2 | CS 02 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-3 | CS 03 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-4 | CS 04 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-5 | CS 05 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-6 | CS 06 | Total/NA | Solid | 8021B | 115979 |
| 890-8580-7 | CS 07 | Total/NA | Solid | 8021B | 115979 |
| MB 880-115940/5-A | Method Blank | Total/NA | Solid | 8021B | 115940 |
| MB 880-115979/5-A | Method Blank | Total/NA | Solid | 8021B | 115979 |
| LCS 880-115979/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 115979 |
| LCSD 880-115979/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 115979 |
| 880-61170-A-1-A MS | Matrix Spike | Total/NA | Solid | 8021B | 115979 |
| 880-61170-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 115979 |

### Prep Batch: 115940

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 880-115940/5-A | Method Blank | Total/NA | Solid | 5035 | |

### Prep Batch: 115979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | 5035 | |
| 890-8580-2 | CS 02 | Total/NA | Solid | 5035 | |
| 890-8580-3 | CS 03 | Total/NA | Solid | 5035 | |
| 890-8580-4 | CS 04 | Total/NA | Solid | 5035 | |
| 890-8580-5 | CS 05 | Total/NA | Solid | 5035 | |
| 890-8580-6 | CS 06 | Total/NA | Solid | 5035 | |
| 890-8580-7 | CS 07 | Total/NA | Solid | 5035 | |
| MB 880-115979/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-115979/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-115979/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-61170-A-1-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-61170-A-1-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Analysis Batch: 116046

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | Total BTEX | |
| 890-8580-2 | CS 02 | Total/NA | Solid | Total BTEX | |
| 890-8580-3 | CS 03 | Total/NA | Solid | Total BTEX | |
| 890-8580-4 | CS 04 | Total/NA | Solid | Total BTEX | |
| 890-8580-5 | CS 05 | Total/NA | Solid | Total BTEX | |
| 890-8580-6 | CS 06 | Total/NA | Solid | Total BTEX | |
| 890-8580-7 | CS 07 | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Analysis Batch: 115935

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-3 | CS 03 | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-4 | CS 04 | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-5 | CS 05 | Total/NA | Solid | 8015B NM | 116031 |

# QC Association Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## GC Semi VOA (Continued)

### Analysis Batch: 115935 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-6 | CS 06 | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-7 | CS 07 | Total/NA | Solid | 8015B NM | 116031 |
| MB 880-116031/1-A | Method Blank | Total/NA | Solid | 8015B NM | 116031 |
| LCS 880-116031/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 116031 |
| LCSD 880-116031/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-1 MS | CS 01 | Total/NA | Solid | 8015B NM | 116031 |
| 890-8580-1 MSD | CS 01 | Total/NA | Solid | 8015B NM | 116031 |

### Prep Batch: 116007

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-2 | CS 02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-116007/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-116007/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-116007/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-61189-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-61189-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 116031

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-3 | CS 03 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-4 | CS 04 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-5 | CS 05 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-6 | CS 06 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-7 | CS 07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-116031/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-116031/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-116031/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-8580-1 MS | CS 01 | Total/NA | Solid | 8015NM Prep | |
| 890-8580-1 MSD | CS 01 | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 116047

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Total/NA | Solid | 8015 NM | |
| 890-8580-2 | CS 02 | Total/NA | Solid | 8015 NM | |
| 890-8580-3 | CS 03 | Total/NA | Solid | 8015 NM | |
| 890-8580-4 | CS 04 | Total/NA | Solid | 8015 NM | |
| 890-8580-5 | CS 05 | Total/NA | Solid | 8015 NM | |
| 890-8580-6 | CS 06 | Total/NA | Solid | 8015 NM | |
| 890-8580-7 | CS 07 | Total/NA | Solid | 8015 NM | |

### Analysis Batch: 116109

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-2 | CS 02 | Total/NA | Solid | 8015B NM | 116007 |
| MB 880-116007/1-A | Method Blank | Total/NA | Solid | 8015B NM | 116007 |
| LCS 880-116007/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 116007 |
| LCSD 880-116007/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 116007 |
| 880-61189-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 116007 |
| 880-61189-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 116007 |

# QC Association Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## HPLC/IC

### Leach Batch: 116028

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Soluble | Solid | DI Leach | |
| 890-8580-2 | CS 02 | Soluble | Solid | DI Leach | |
| 890-8580-3 | CS 03 | Soluble | Solid | DI Leach | |
| 890-8580-4 | CS 04 | Soluble | Solid | DI Leach | |
| 890-8580-5 | CS 05 | Soluble | Solid | DI Leach | |
| 890-8580-6 | CS 06 | Soluble | Solid | DI Leach | |
| 890-8580-7 | CS 07 | Soluble | Solid | DI Leach | |
| MB 880-116028/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-116028/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-116028/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-8580-1 MS | CS 01 | Soluble | Solid | DI Leach | |
| 890-8580-1 MSD | CS 01 | Soluble | Solid | DI Leach | |

### Analysis Batch: 116029

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-2 | CS 02 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-3 | CS 03 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-4 | CS 04 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-5 | CS 05 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-6 | CS 06 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-7 | CS 07 | Soluble | Solid | 300.0 | 116028 |
| MB 880-116028/1-A | Method Blank | Soluble | Solid | 300.0 | 116028 |
| LCS 880-116028/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 116028 |
| LCSD 880-116028/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 116028 |
| 890-8580-1 MS | CS 01 | Soluble | Solid | 300.0 | 116028 |
| 890-8580-1 MSD | CS 01 | Soluble | Solid | 300.0 | 116028 |

# Lab Chronicle

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 01
**Date Collected: 08/04/25 12:26**
**Date Received: 08/06/25 11:20**

## Lab Sample ID: 890-8580-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 04:35 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 04:35 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 00:00 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 00:00 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 04:33 | CS | EET MID |

## Client Sample ID: CS 02
**Date Collected: 08/04/25 12:29**
**Date Received: 08/06/25 11:20**

## Lab Sample ID: 890-8580-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 04:55 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 04:55 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 12:19 | SA | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 116007 | 08/06/25 14:26 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 116109 | 08/07/25 12:19 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 04:56 | CS | EET MID |

## Client Sample ID: CS 03
**Date Collected: 08/04/25 12:49**
**Date Received: 08/06/25 11:20**

## Lab Sample ID: 890-8580-3
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 05:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 05:16 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 01:00 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 01:00 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 05:04 | CS | EET MID |

## Client Sample ID: CS 04
**Date Collected: 08/04/25 12:53**
**Date Received: 08/06/25 11:20**

## Lab Sample ID: 890-8580-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 05:36 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 05:36 | SA | EET MID |

Eurofins Carlsbad

# Lab Chronicle

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 04
**Date Collected: 08/04/25 12:53**
**Date Received: 08/06/25 11:20**

**Lab Sample ID: 890-8580-4**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 01:14 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 01:14 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 05:11 | CS | EET MID |

## Client Sample ID: CS 05
**Date Collected: 08/04/25 13:12**
**Date Received: 08/06/25 11:20**

**Lab Sample ID: 890-8580-5**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 05:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 05:57 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 01:29 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 01:29 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 05:19 | CS | EET MID |

## Client Sample ID: CS 06
**Date Collected: 08/04/25 13:13**
**Date Received: 08/06/25 11:20**

**Lab Sample ID: 890-8580-6**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 06:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 06:17 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 01:44 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 01:44 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 05:42 | CS | EET MID |

## Client Sample ID: CS 07
**Date Collected: 08/04/25 13:28**
**Date Received: 08/06/25 11:20**

**Lab Sample ID: 890-8580-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 115979 | 08/06/25 21:00 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 115927 | 08/07/25 06:38 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 116046 | 08/07/25 06:38 | SA | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 116047 | 08/07/25 01:58 | SA | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 115935 | 08/07/25 01:58 | TKC | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 116031 | 08/07/25 07:32 | EL | EET MID |

Eurofins Carlsbad

# Lab Chronicle

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## Client Sample ID: CS 07
**Date Collected: 08/04/25 13:28**
**Date Received: 08/06/25 11:20**

## Lab Sample ID: 890-8580-7
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 116028 | 08/06/25 18:06 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 116029 | 08/07/25 05:49 | CS | EET MID |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

## 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 |

# Method Summary

Client: Ensolum
Project/Site: PLU BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

| 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 BATTERY 158

Job ID: 890-8580-1
SDG: 03C1558699

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-8580-1 | CS 01 | Solid | 08/04/25 12:26 | 08/06/25 11:20 | 0.25 |
| 890-8580-2 | CS 02 | Solid | 08/04/25 12:29 | 08/06/25 11:20 | 0.25 |
| 890-8580-3 | CS 03 | Solid | 08/04/25 12:49 | 08/06/25 11:20 | 0.25 |
| 890-8580-4 | CS 04 | Solid | 08/04/25 12:53 | 08/06/25 11:20 | 0.25 |
| 890-8580-5 | CS 05 | Solid | 08/04/25 13:12 | 08/06/25 11:20 | 0.25 |
| 890-8580-6 | CS 06 | Solid | 08/04/25 13:13 | 08/06/25 11:20 | 0.25 |
| 890-8580-7 | CS 07 | Solid | 08/04/25 13:28 | 08/06/25 11:20 | 0.25 |

eurofins | Environment Testing Xenco

# 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

**Work Order No:** _____

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Jeremy Reich | Bill to: (if different) | |
| 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: | (432) 296-0627 | Email: | |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | PLU Battery 158 | Turn Around | |
| Project Number: | 03C1558699 | ☐ Routine ☑ Rush 24h | |
| Project Location: | 32.237502, -103.7112 | Due Date: | |
| Sampler's Name: | Trevor Wargo | TAT starts the day received by the lab, if received by 4:30pm | |
| PO #: | | | |

| SAMPLE RECEIPT | | | | |
|---|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No | |
| Samples Received Intact: | (Yes) No | Thermometer ID: | IR007 | |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.2 | |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 4.2 | |
| Total Containers: | | Corrected Temperature: | 4.0 | |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | Parameters: TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|
| CS01 | soil | 08/04/25 | 12:21 | 0.25 | comp | 1 | | | | |
| CS02 | | | 12:29 | | | | | | | |
| CS03 | | | 12:44 | | | | | | | |
| CS04 | | | 12:53 | | | | | | | |
| CS05 | | | 13:12 | | | | | | | |
| CS06 | | | 13:13 | | | | | | | |
| CS07 | ↓ | ↓ | 13:28 | ↓ | ↓ | ↓ | | ↓ | ↓ | ↓ |

890-8580 Chain of Custody

**Preservative Codes**

None: NO — DI Water: $H_2O$
Cool: Cool — MeOH: Me
HCL: HC — $HNO_3$: HN
$H_2SO_4$: $H_2$ — NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

**Sample Comments**

**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 $SiO_2$ Na Sr Tl 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 Tl 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 |
|---|---|---|---|---|---|
| 1 Trevor Wargo | | 11:20 8/ | 4 | | |
| 3 | | | 6 | | |
| 5 | | | | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8580-1
SDG Number: 03C1558699

**Login Number: 8580**
**List Number: 1**
**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

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

# Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8580-1
SDG Number: 03C1558699

**Login Number: 8580**
**List Number: 2**
**Creator: Laing, Edmundo**

**List Source: Eurofins Midland**
**List Creation: 08/07/25 07:30 AM**

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

CARDINAL Laboratories

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

August 25, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BATTERY 158

Enclosed are the results of analyses for samples received by the laboratory on 08/21/25 16:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 08/21/2025 | Sampling Date: | 08/21/2025 |
| Reported: | 08/25/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: FS01 1' (H255240-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.61 | 80.3 | 2.00 | 0.485 | |
| Toluene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.80 | 90.0 | 2.00 | 2.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.86 | 93.1 | 2.00 | 6.76 | |
| Total Xylenes* | <0.150 | 0.150 | 08/22/2025 | ND | 5.81 | 96.8 | 6.00 | 7.24 | |
| Total BTEX | <0.300 | 0.300 | 08/22/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: KH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 08/22/2025 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2025 | ND | 206 | 103 | 200 | 1.56 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/22/2025 | ND | 183 | 91.5 | 200 | 0.802 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *99.8 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *103 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 08/21/2025 | Sampling Date: | 08/21/2025 |
| Reported: | 08/25/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: FS02 1' (H255240-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.61 | 80.3 | 2.00 | 0.485 | |
| Toluene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.80 | 90.0 | 2.00 | 2.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.86 | 93.1 | 2.00 | 6.76 | |
| Total Xylenes* | <0.150 | 0.150 | 08/22/2025 | ND | 5.81 | 96.8 | 6.00 | 7.24 | |
| Total BTEX | <0.300 | 0.300 | 08/22/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *113 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: KH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 08/22/2025 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2025 | ND | 206 | 103 | 200 | 1.56 | |
| DRO >C10-C28* | <10.0 | 10.0 | 08/22/2025 | ND | 183 | 91.5 | 200 | 0.802 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *101 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *104 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 08/21/2025 | Sampling Date: | 08/21/2025 |
| Reported: | 08/25/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: FS03 1' (H255240-03)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.61 | 80.3 | 2.00 | 0.485 | |
| Toluene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.80 | 90.0 | 2.00 | 2.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.86 | 93.1 | 2.00 | 6.76 | |
| Total Xylenes* | <0.150 | 0.150 | 08/22/2025 | ND | 5.81 | 96.8 | 6.00 | 7.24 | |
| Total BTEX | <0.300 | 0.300 | 08/22/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *110 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: KH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 08/22/2025 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2025 | ND | 206 | 103 | 200 | 1.56 | |
| **DRO >C10-C28*** | **14.3** | 10.0 | 08/22/2025 | ND | 183 | 91.5 | 200 | 0.802 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *102 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *106 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 08/21/2025 | Sampling Date: | 08/21/2025 |
| Reported: | 08/25/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: FS04 1' (H255240-04)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.61 | 80.3 | 2.00 | 0.485 | |
| Toluene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.80 | 90.0 | 2.00 | 2.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.86 | 93.1 | 2.00 | 6.76 | |
| Total Xylenes* | <0.150 | 0.150 | 08/22/2025 | ND | 5.81 | 96.8 | 6.00 | 7.24 | |
| Total BTEX | <0.300 | 0.300 | 08/22/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: KH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **32.0** | 16.0 | 08/22/2025 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2025 | ND | 206 | 103 | 200 | 1.56 | |
| **DRO >C10-C28*** | **12.3** | 10.0 | 08/22/2025 | ND | 183 | 91.5 | 200 | 0.802 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *101 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *104 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 08/21/2025 | Sampling Date: | 08/21/2025 |
| Reported: | 08/25/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: SW01 0-1' (H255240-05)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.61 | 80.3 | 2.00 | 0.485 | |
| Toluene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.80 | 90.0 | 2.00 | 2.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 08/22/2025 | ND | 1.86 | 93.1 | 2.00 | 6.76 | |
| Total Xylenes* | <0.150 | 0.150 | 08/22/2025 | ND | 5.81 | 96.8 | 6.00 | 7.24 | |
| Total BTEX | <0.300 | 0.300 | 08/22/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: KH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 08/22/2025 | ND | 416 | 104 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: ms

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 08/22/2025 | ND | 206 | 103 | 200 | 1.56 | |
| **DRO >C10-C28*** | **17.7** | 10.0 | 08/22/2025 | ND | 183 | 91.5 | 200 | 0.802 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 08/22/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *103 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *106 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

| | |
|---|---|
| Company Name: Ensolum, LLC | |
| Project Manager: Jeremy Reich | |
| Address: 601 N Marienfeld Street, Suite 400 | |
| City: Midland State: TX Zip: 79701 | |
| Phone #: (432) 296-0627 Fax #: | |
| Project #: 03C1558699 Project Owner: XTO Energy | |
| Project Name: PLU Battery 158 - SPILLS | |
| Project Location: 32.238060, -103.914459 | |
| Sampler Name: Trevor Wurga | |

**BILL TO**

| | |
|---|---|
| P.O. #: | |
| Company: XTO Energy, Inc | |
| Attn: Colton Brown | |
| Address: 3104 E Greene St | |
| City: Carlsbad | |
| State: NM Zip: 88220 | |
| Phone #: | |
| Fax #: | |

**ANALYSIS REQUEST**

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H255210 | | | | | | | | | | | | | | | | | | |
| 1 | FS01 | 1 | C | 1 | | | X | | | | | X | | 08/21/25 | 8:56 | X | X | X |
| 2 | FS02 | ↓ | ↓ | ↓ | | | ↓ | | | | | ↓ | | ↓ | 8:58 | ↓ | ↓ | ↓ |
| 3 | FS03 | | | | | | | | | | | | | | 9:01 | | | |
| 4 | FS04 | | | | | | | | | | | | | | 9:22 | | | |
| 5 | SW01 | 0-1 | | | | | | | | | | | | | 9:57 | | | |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: Trevor Wurga | Date: 8.21.25 Time: 1618 | Received By: Shadrigney | |
| Relinquished By: | Date: Time: | Received By: | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 5.1 Corrected Temp. °C 5.4 | Sample Condition Cool: Yes / No Intact: Yes / No | CHECKED BY: (Initials) SR |

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address: twarga@ensolum.com, Jreich@ensolum.com
BBeill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com

REMARKS: Incident Number: nAPP2518877280
Cost Center: 1081121001
GFCM: 48605000

Turnaround Time: 48 hr Standard ☐ Rush ☑

Thermometer ID #113 #140
Correction Factor -0.5°C -0.3

Bacteria (only) Sample Condition: Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

CARDINAL Laboratories

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

September 11, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BATTERY 158

Enclosed are the results of analyses for samples received by the laboratory on 09/09/25 14:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 09/09/2025 | Sampling Date: | 09/09/2025 |
| Reported: | 09/11/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 ( SPILLS ) | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: SS03 SURFACE (H255644-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/10/2025 | ND | 1.81 | 90.5 | 2.00 | 2.36 | |
| Toluene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.11 | 106 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.26 | 113 | 2.00 | 7.17 | QM-07 |
| Total Xylenes* | <0.150 | 0.150 | 09/10/2025 | ND | 7.04 | 117 | 6.00 | 7.20 | QM-07 |
| Total BTEX | <0.300 | 0.300 | 09/10/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *114 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 09/10/2025 | ND | 400 | 100 | 400 | 7.69 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 09/10/2025 | ND | 169 | 84.7 | 200 | 1.01 | |
| **DRO >C10-C28*** | **32.8** | 10.0 | 09/10/2025 | ND | 168 | 84.2 | 200 | 1.68 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/10/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *87.0 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *89.9 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

| | |
|---|---|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 - 1

| | | | |
|---|---|---|---|
| Company Name: Ensolum, LLC | | **BILL TO** | |
| Project Manager: Jeremy Reich | | P.O. #: | |
| Address: 601 N Marienfeld Street, Suite 400 | | Company: XTO Energy, Inc | |
| City: Midland | State: TX Zip: 79701 | Attn: Colton Brown | |
| Phone #: (432) 296-0627 | Fax #: | Address: 3104 E Greene St | |
| Project #: 03C1558699 | Project Owner: XTO Energy | City: Carlsbad | |
| Project Name: ~~03C1558~~ FOW PLU Battery 158 - SPILLS | | State: NM Zip: 88220 | |
| Project Location: 32.238960, -103.914459 | | Phone #: | |
| Sampler Name: Trevor Wargo | | Fax #: | |

| FOR LAB USE ONLY | | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 | | | | | | | | | | |
| H255644 1 | 5503 | surface | G | 1 | | | 1 | | | | | 1 | | 09/09/25 | 12:27 | 1 | 1 | 1 | | | | | | | | | | |

TBN

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: Trevor Wargo | Date: 9.9.25 Time: 1458 | Received By: APadias | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| Relinquished By: | Date: Time: | Received By: | All Results are emailed. Please provide Email address: twargo@ensolum.com BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com |

REMARKS: Incident Number: nAPP2518847280
Cost Center: 1081121001
GFCM: 48605000

| | | | | |
|---|---|---|---|---|
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 4.9 Corrected Temp. °C 4.6 | Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No | CHECKED BY: (Initials) KD | Turnaround Time: Standard ☐ Rush ☑ 48h Thermometer ID #113 +1.0 Correction Factor -0.3°C +0.3 |

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Nc; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

KD 9.9.25

CARDINAL Laboratories

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

September 11, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BATTERY 158

Enclosed are the results of analyses for samples received by the laboratory on 09/09/25 14:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 09/09/2025 | Sampling Date: | 09/09/2025 |
| Reported: | 09/11/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 ( SPILLS ) | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: SS01 SURFACE (H255645-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/10/2025 | ND | 1.81 | 90.5 | 2.00 | 2.36 | |
| Toluene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.11 | 106 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.26 | 113 | 2.00 | 7.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/10/2025 | ND | 7.04 | 117 | 6.00 | 7.20 | |
| Total BTEX | <0.300 | 0.300 | 09/10/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 09/10/2025 | ND | 400 | 100 | 400 | 7.69 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 09/10/2025 | ND | 169 | 84.7 | 200 | 1.01 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/10/2025 | ND | 168 | 84.2 | 200 | 1.68 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/10/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.6 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *83.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

| | |
|---|---|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

| | | | |
|---|---|---|---|
| Company Name: Ensolum, LLC | | **BILL TO** | |
| Project Manager: Jeremy Reich | | P.O. #: | |
| Address: 601 N Marienfeld Street, Suite 400 | | Company: XTO Energy, Inc | |
| City: Midland | State: TX Zip: 79701 | Attn: Colton Brown | |
| Phone #: (432) 296-0627 | Fax #: | Address: 3104 E Greene St | |
| Project #: 03C1558699 | Project Owner: XTO Energy | City: Carlsbad | |
| Project Name: PLU Battery 158 - SPILLS | | State: NM Zip: 88220 | |
| Project Location: 32.238060, -103.914459 | | Phone #: | |
| Sampler Name: Trevor Wargo | | Fax #: | |

FOR LAB USE ONLY

| Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hassles 1 | SS01 | surface | G | 1 | | | 1 | | | | | 1 | | 09/09/25 | 12:25 | 1 | 1 | 1 |

TBW

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: Trevor Wargo | Date: 9.9.25 Time: 1458 | Received By: | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| Relinquished By: | Date: Time: | Received By: | All Results are emailed. Please provide Email address: twargo@ensolum.com BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com |
| | | | REMARKS: Incident Number: nAPP2518547280 Cost Center: 108112101001 GFCM: 48605000 |

| | | | | | |
|---|---|---|---|---|---|
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 4.9 Corrected Temp. °C 4.6 | Sample Condition Cool: ☐ Yes ☑ Yes ☐ No ☐ No Intact | CHECKED BY: (Initials) AD | Turnaround Time: 48h Standard ☐ Rush ☑ Thermometer ID #113 Correction Factor -0.6°C +0.0 -0.3 | Bacteria (only) Sample Condition Cool: ☐ Yes ☐ Yes ☐ No ☐ No Intact Observed Temp. °C Corrected Temp. °C |

FORM-006 R 3.2 10/07/21

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

AD 9.9.25

CARDINAL Laboratories

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

September 11, 2025

JEREMY REICH

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU BATTERY 158

Enclosed are the results of analyses for samples received by the laboratory on 09/09/25 14:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 09/09/2025 | Sampling Date: | 09/09/2025 |
| Reported: | 09/11/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 ( SPILLS ) | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: SS02 SURFACE (H255646-01)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/10/2025 | ND | 1.81 | 90.5 | 2.00 | 2.36 | |
| Toluene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.11 | 106 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.26 | 113 | 2.00 | 7.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/10/2025 | ND | 7.04 | 117 | 6.00 | 7.20 | |
| Total BTEX | <0.300 | 0.300 | 09/10/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *115 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <16.0 | 16.0 | 09/10/2025 | ND | 400 | 100 | 400 | 7.69 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 09/10/2025 | ND | 169 | 84.7 | 200 | 1.01 | |
| DRO >C10-C28* | <10.0 | 10.0 | 09/10/2025 | ND | 168 | 84.2 | 200 | 1.68 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/10/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.9 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *87.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Analytical Results For:

ENSOLUM, LLC
JEREMY REICH
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

| | | | |
|---|---|---|---|
| Received: | 09/09/2025 | Sampling Date: | 09/09/2025 |
| Reported: | 09/11/2025 | Sampling Type: | Soil |
| Project Name: | PLU BATTERY 158 | Sampling Condition: | Cool & Intact |
| Project Number: | 03C1558699 ( SPILLS ) | Sample Received By: | Alyssa Parras |
| Project Location: | XTO 32.238060, -103.914459 | | |

### Sample ID: SS04 SURFACE (H255646-02)

**BTEX 8021B** mg/kg Analyzed By: JH

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 09/10/2025 | ND | 1.81 | 90.5 | 2.00 | 2.36 | |
| Toluene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.11 | 106 | 2.00 | 4.51 | |
| Ethylbenzene* | <0.050 | 0.050 | 09/10/2025 | ND | 2.26 | 113 | 2.00 | 7.17 | |
| Total Xylenes* | <0.150 | 0.150 | 09/10/2025 | ND | 7.04 | 117 | 6.00 | 7.20 | |
| Total BTEX | <0.300 | 0.300 | 09/10/2025 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *111 %* *71.5-134*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: AC

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **16.0** | 16.0 | 09/10/2025 | ND | 400 | 100 | 400 | 7.69 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 09/10/2025 | ND | 169 | 84.7 | 200 | 1.01 | |
| **DRO >C10-C28*** | **28.4** | 10.0 | 09/10/2025 | ND | 168 | 84.2 | 200 | 1.68 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 09/10/2025 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *88.3 %* *44.4-145*

*Surrogate: 1-Chlorooctadecane* *86.0 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

## Notes and Definitions

| | |
|---|---|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

| | |
|---|---|
| Company Name: Ensolum, LLC | **BILL TO** |
| Project Manager: Jeremy Reich | P.O. #: |
| Address: 601 N Marienfeld Street, Suite 400 | Company: XTO Energy, Inc |
| City: Midland State: TX Zip: 79701 | Attn: Colton Brown |
| Phone #: (432) 296-0627 Fax #: | Address: 3104 E Greene St |
| Project #: 03C1558699 Project Owner: XTO Energy - SPILLS | City: Carlsbad |
| Project Name: PLU Battery 158 | State: NM Zip: 88220 |
| Project Location: 32.238068, -103.914459 | Phone #: |
| Sampler Name: Trevor Wargo | Fax #: |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | Depth (feet) | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER: | PRESERV.: ACID/BASE: | ICE / COOL | OTHER: | SAMPLING: DATE | TIME | ANALYSIS REQUEST: TPH 8015 | BTEX 8021 | Chloride 4500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H255611 1 | SS02 | surface | G | 1 | | | X | | | | | X | | 09/09/25 | 10:37 | X | X | X |
| 2 | SS04 | ↓ | ↓ | ↓ | | | X | | | | | X | | ↓ | 10:54 | X | X | X |

TW

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| Relinquished By: Trevor Wargo | Date: 09.05 | Received By: Aparna | Verbal Result: ☐ Yes ☐ No Add'l Phone #: |
| | Time: 1458 | | All Results are emailed. Please provide Email address: twargo@ensolum.com |
| Relinquished By: | Date: | Received By: | BBelill@ensolum.com, TMorrissey@ensolum.com, THillard@ensolum.com, KThomason@ensolum.com |
| | Time: | | REMARKS: Incident Number: nAPP2518847280 Cost Center: 2081121001 GFCM: 48605000 |

| | | | | |
|---|---|---|---|---|
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Observed Temp. °C 4.9 Corrected Temp. °C 4.6 | Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No | CHECKED BY: (Initials) AD | Turnaround Time: 48h Standard ☐ Rush ☑ Thermometer ID #113 #140 Correction Factor -0.5°C +0.5 |

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C ____ Corrected Temp. °C ____

FORM-006 R 3.2 10/07/21

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

09.05.25

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Prerequisites** | |
|---|---|
| Incident ID (n#) | **nAPP2518847280** |
| Incident Name | **NAPP2518847280 PLU BATTERY 158 @ A-07-24S-30E** |
| Incident Type | **Oil Release** |
| Incident Status | **Remediation Closure Report Received** |

| **Location of Release Source**<br>*Please answer all the questions in this group.* | |
|---|---|
| Site Name | PLU BATTERY 158 |
| Date Release Discovered | 07/02/2025 |
| Surface Owner | Federal |

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

| **Nature and Volume of Release**<br>*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.* | |
|---|---|
| Crude Oil Released (bbls) Details | Cause: Equipment Failure \| Flow Line - Production \| Crude Oil \| Released: 0 BBL \| Recovered: 0 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) | *Not answered.* |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| Operator: | OGRID: |
|---|---|
| XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | 5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Nature and Volume of Release (continued)** | |
|---|---|
| Is this a gas only submission (i.e. only significant Mcf values reported) | **More info needed to determine if this will be treated as a "gas only" report.** |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | **Yes** |
| Reasons why this would be considered a submission for a notification of a major release | **From paragraph A. "Major release" determine using:**<br>**(2) an unauthorized release of a volume that:**<br>**(a) results in a fire or is the result of a fire.** |
| *With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.* | |

| **Initial Response** | |
|---|---|
| *The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.* | |
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | *Not answered.* |
| *Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.* | |

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 09/30/2025 |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[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 |
| **What is the minimum distance, between the closest lateral extents of the release and the following surface areas:** | |
| A continuously flowing watercourse or any other significant watercourse | Between ½ and 1 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between ½ and 1 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Between ½ and 1 (mi.) |
| A wetland | Between ½ and 1 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between ½ and 1 (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 | Yes |

| **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 |
| *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.* | |
| 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) | 32 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 877 |
| GRO+DRO (EPA SW-846 Method 8015M) | 877 |
| 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 | 08/04/2025 |
| On what date will (or did) the final sampling or liner inspection occur | 09/09/2025 |
| On what date will (or was) the remediation complete(d) | 09/09/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed | 1340 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 38 |
| What is the estimated surface area (in square feet) that will be remediated | 1340 |
| What is the estimated volume (in cubic yards) that will be remediated | 38 |
| *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.* | |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[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 **off-site** disposal (i.e. dig and haul, hydrovac, etc.) | Yes |
| Which OCD approved facility will be used for **off-site** disposal | fJEG1635837366 OWL LANDFILL JAL |
| **OR** which OCD approved well (API) will be used for **off-site** disposal | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, out-of-state | *Not answered.* |
| **OR** is the **off-site** disposal site, to be used, an NMED facility | *Not answered.* |
| (Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms) | *Not answered.* |
| (In Situ) Soil Vapor Extraction | *Not answered.* |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | *Not answered.* |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | *Not answered.* |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | *Not answered.* |
| Ground Water Abatement pursuant to 19.15.30 NMAC | *Not answered.* |
| OTHER (Non-listed remedial process) | *Not answered.* |
| *Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.* | |
| | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 09/30/2025 |
| *The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.* | |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| Operator: | OGRID: |
|---|---|
| XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | 5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

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

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Sampling Event Information** | |
|---|---|
| Last sampling notification (C-141N) recorded | **502354** |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | **09/09/2025** |
| What was the (estimated) number of samples that were to be gathered | **2** |
| What was the sampling surface area in square feet | **400** |

| **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 | 361 |
| What was the total volume (cubic yards) remediated | 14 |
| 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 | 979 |
| What was the total volume (in cubic yards) reclaimed | 31 |
| Summarize any additional remediation activities not included by answers (above) | Assessment, surface scrape, delineation, excavation, and soil sampling activities were conducted at the Site to address the July 2025 flare fire release. Laboratory analytical results for all final confirmation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and/or reclamation standards where applicable. Confirmation soil samples (FS01 through FS04) collected from the floor of the excavation, along with composite soil samples (CS01 through CS03) indicated all COC concentrations were in compliance with Site Closure Criteria and/or reclamation standards, successfully defining the vertical extent of the release. Delineation soil samples (SS01 through SS04), along with confirmation soil sample SW01 collected from the sidewalls of the excavation, indicated all COC concentrations were in compliance with reclamation standards, successfully defining the lateral extent of the release. Based on laboratory analytical results, no further remediation was required. The excavation will be backfilled with locally procured material, and the Site will be recontoured to match pre-existing Site conditions. |
| *The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.* | |

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

| | |
|---|---|
| I hereby agree and sign off to the above statement | Name: Robert Woodall<br>Title: Environmental Analyst<br>Email: robert.d.woodall@exxonmobil.com<br>Date: 09/30/2025 |

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

General Information
Phone: (505) 629-6116

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

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



## QUESTIONS (continued)

| Operator: | OGRID: |
|---|---|
| XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | 5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| **Reclamation Report** | |
|---|---|
| *Only answer the questions in this group if all reclamation steps have been completed.* | |
| Requesting a reclamation approval with this submission | No |

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

General Information
Phone: (505) 629-6116

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

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



## CONDITIONS

| | |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380 |
| | Action Number:<br>510779 |
| | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| nvelez | None | 12/3/2025 |