



January 15, 2024

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

**Re: Closure Request Addendum
PLU Pierce Canyon 17 Fed SWD 001
Incident Number NAPP2216839215
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum (Addendum)* to document site assessment, excavation, and soil sampling activities at the PLU Pierce Canyon 17 Fed SWD 001 (Site). A *Closure Request* submitted to the New Mexico Oil Conservation Division (NMOCD) for the Site on September 2, 2022 was denied on December 1, 2022. The NMOCD stated that the depth to groundwater assessment and delineation were not sufficient. This *Addendum* provides an update to the depth to groundwater determination activities as well as additional excavation and soil sampling conducted at the Site in response to the denial. Based on the additional depth to groundwater determination, excavation and soil sampling activities described below, XTO is submitting this *Addendum* and requesting no further action for Incident Number NAPP2216839215.

RELEASE BACKGROUND

The NMOCD portal lists the location of the release at 32.12593°, -103.90696°; however, following a review of the release information including geolocated photos of the release, the Site was determined to be located in Unit N, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico at 32.126021°, -103.904223° and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On June 5, 2022, a leaking valve and seal resulted in the release of approximately 6 barrels (bbls) of brine water during drilling operations. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 5.5 bbls of released brine water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on June 17, 2022. The release was assigned Incident Number NAPP2216839215.

As documented in the *Closure Request* submitted for Incident Number NAPP2216839215, delineation and excavation activities were conducted at the Site in 2022 to address the impacted soil resulting from the June 5, 2022, brine release. Four preliminary soil samples (SS01 through SS04) were collected within the release extent from a depth of approximately 0.2 feet below ground surface (bgs) on July 26, 2022. In August 2022, soil samples SS05 through SS08 were collected at a depth of 0.5 feet bgs surrounding the release, and samples from potholes (PH01 through PH03) ranging in depth from 2 feet to 3 feet bgs were collected at the existing preliminary soil sample locations to assess the vertical extent of the release. Impacted soil was excavated from the release area at preliminary soil sample SS03. Composite soil samples FS01 and FS02 were collected from the floor of the excavation at a depth of 1-foot bgs. Due to the shallow depth of the excavation, sidewalls of the excavation were included in FS01 and FS02. The final excavation extent measured approximately 220 square feet. A total of roughly 10 cubic yards of impacted soil was removed during the excavation activities. Closure was requested on

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September 2, 2022, based on laboratory analytical results for the delineation and excavation soil samples compliant with the Closure Criteria. The *Closure Request* is attached as Appendix A.

On December 1, 2022, NMOCD denied the *Closure Request* for Incident Number NAPP2216839215 for the following reasons:

- *When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.*
- *If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.*
- *Please continue to horizontally delineate sample points to 600 mg/kg for chlorides and TPH to 100 mg/kg on the outer edges/periphery and include sample points in your next report after closure criteria limits have been met. Surface sample points and sidewalls on the edge of the release need to be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH for the spill to be horizontally delineated.*

CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of 19.15.29 NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

In response to NMOCD's denial of the *Closure Report* due to insufficient determination of depth to groundwater, XTO proceeded with the installation of a soil boring for determination of groundwater depth and confirmation of the Closure Criteria. During August 2023, a borehole permitted as New Mexico Office of the State Engineer (NMOSE) well C-04758, was advanced to a depth of 110 feet bgs via air rotary drill rig. The borehole was located approximately 0.46 miles southeast of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. No moisture or saturated soil indicative of a groundwater table was observed during drilling of the soil boring. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned using hydrated bentonite chips. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix B.

Based on confirmed depth to groundwater greater than 100 feet bgs within 0.5 miles of the Site, the following Table I Closure Criteria were confirmed as appropriate for protection of groundwater, human health, and the environment at this Site:

- 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

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ADDITIONAL EXCAVATION AND SOIL SAMPLING ACTIVITIES

In response to NMOCD's denial of the *Closure Request*, laboratory analytical results from previous sampling events were reviewed to determine areas requiring delineation to reclamation requirement. Chloride results from delineation samples SS01, PH01, SS02, PH02, PH03, and SS04 as well as floor excavation samples FS01 and FS02 exceeded the reclamation requirement. Figure 2 depicts delineation samples collected at the Site, and Figure 3 illustrates the location of excavation samples. These sampling locations reporting levels above the strictest Table I Closure Criteria were excavated between November 2023 and January 2024. Excavation activities were performed using a backhoe and transport vehicle. To direct excavation activities, Ensolum personnel field screened soil for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

Following additional excavation activities to reclamation requirement in Fall 2023, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Composite samples FS03 through FS22 were collected from the floor of the excavation at depths ranging from 3 feet to 4 feet bgs, and composite sidewall samples SW01 to SW06 were collected from ground surface to depths of 3 feet or 4 feet bgs. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit. The excavation extent and excavation soil sample locations are presented on Figure 3.

Results from the 2023 soil excavation sampling activities reported impacts above the strictest Table I Closure Criteria at sampling locations FS03, FS04, and SW06. An additional excavation was performed in January 2024 at these locations to 4 feet bgs. Composite samples FS03A, FS04A and SW07 were field screened and collected using the procedures described above and submitted for analysis of the above listed COCs to confirm in-situ soil was below reclamation criteria.

The final excavation extent at the Site measured approximately 3,260 square feet. A total of approximately 245 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico and Owl Landfill Services located in Jal, New Mexico. After completion of excavation sampling, the excavation area was backfilled in February 2024 with new material purchased from Owl Landfill Services. Photographic documentation of excavation and backfill activities is included in Appendix C.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS05 through SS08 collected at 0.5 feet bgs and pothole soil sample PH01 collected at 3 feet bgs indicated all COC concentrations were compliant with the strictest Table 1 Closure Criteria, providing lateral and vertical delineation of the release. Laboratory analytical results for excavation soil samples FS03A, FS04A, and FS05 through FS22 collected at depths ranging from 3 feet bgs to 4 feet bgs and sidewall samples SW01 through SW05 and SW07 indicated all COC concentrations were also compliant with the reclamation requirement. Laboratory analytical results are summarized in Table 1, and the laboratory analytical reports from 2023 and 2024 are included in Appendix D. Appendix E provides correspondence email notification receipts associated with the subject release.

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RECLAMATION PLAN

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the plugging and abandoning (P&Aing) of all wells associated with the tank battery and decommissioning of all production equipment, pipelines, and tank battery, which will be removed, and the well pad is reclaimed.

Per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation, any soil within the top 4 feet of the disturbed area would be assessed to meet the strictest Closure Criteria. A review of delineation and excavation soil analytical results confirm that soil has been remediated to reclamation requirements within the top 4 feet of soil and to Closure Criteria below the top 4 feet of soil. All other requirements of 19.2.100.67 NMAC will be addressed prior to, during, and after the P&Aing of the production well.

CLOSURE REQUEST

Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the June 5, 2022, release of brine water. Based on laboratory analytical results from the final excavation and delineation soil samples compliant with Closure Criteria and reclamation requirements where applicable, no further remediation is required. The excavation was backfilled with locally procured material in February 2024.

Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. XTO believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number nAPP2216839215.

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

Sincerely,
Ensolum, LLC



Katherine Kahn, P.G.
Senior Managing Geologist



Tacoma Morrissey
Associate Principal

cc: Kaylan Dirkx, XTO
Colton Brown, XTO
Bureau of Land Management

Appendices:

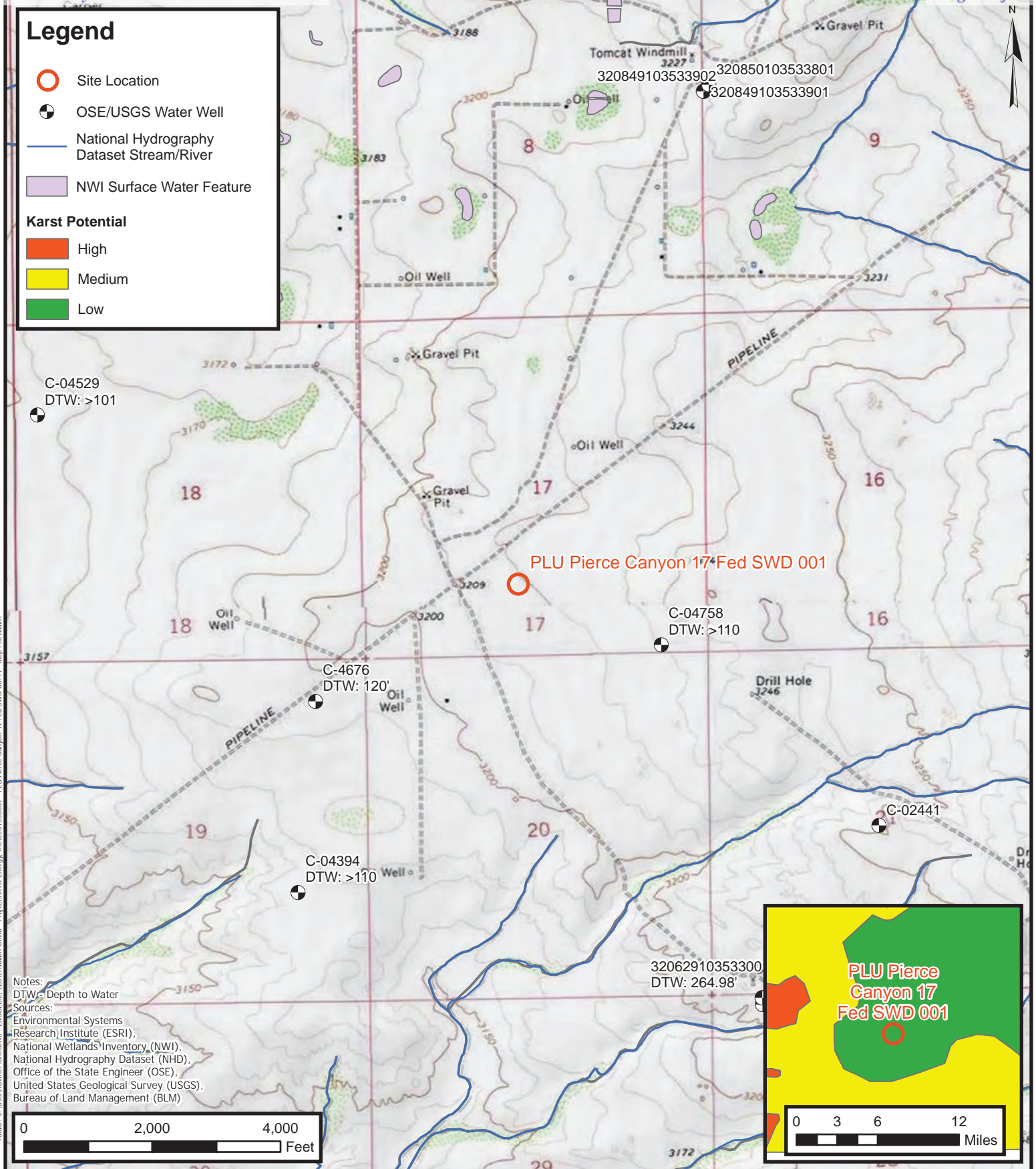
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|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3 | Excavation Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | September 2, 2022 <i>Closure Request</i> |
| Appendix B | Referenced Well Records |

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Appendix C Photographic Log
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E NMOCD Notifications

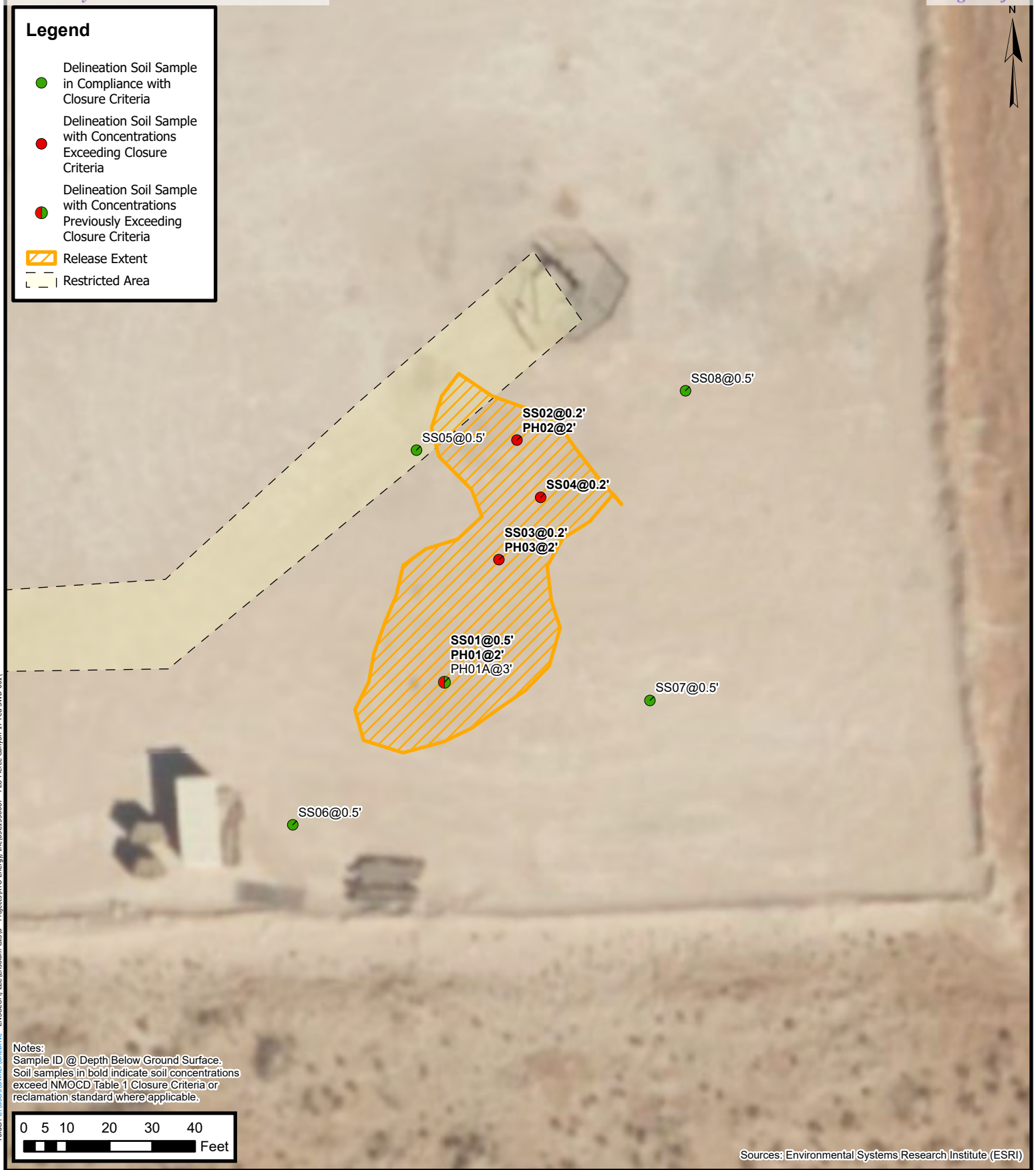


FIGURES



Site Receptor Map
XTO Energy, Inc
PLU Pierce Canyon 17 Fed SWD 001
Incident Number: nAPP2216839215
Unit N, Sec 17, T25S, R30E
Eddy County, New Mexico

FIGURE
1



Delineation Soil Sample Locations

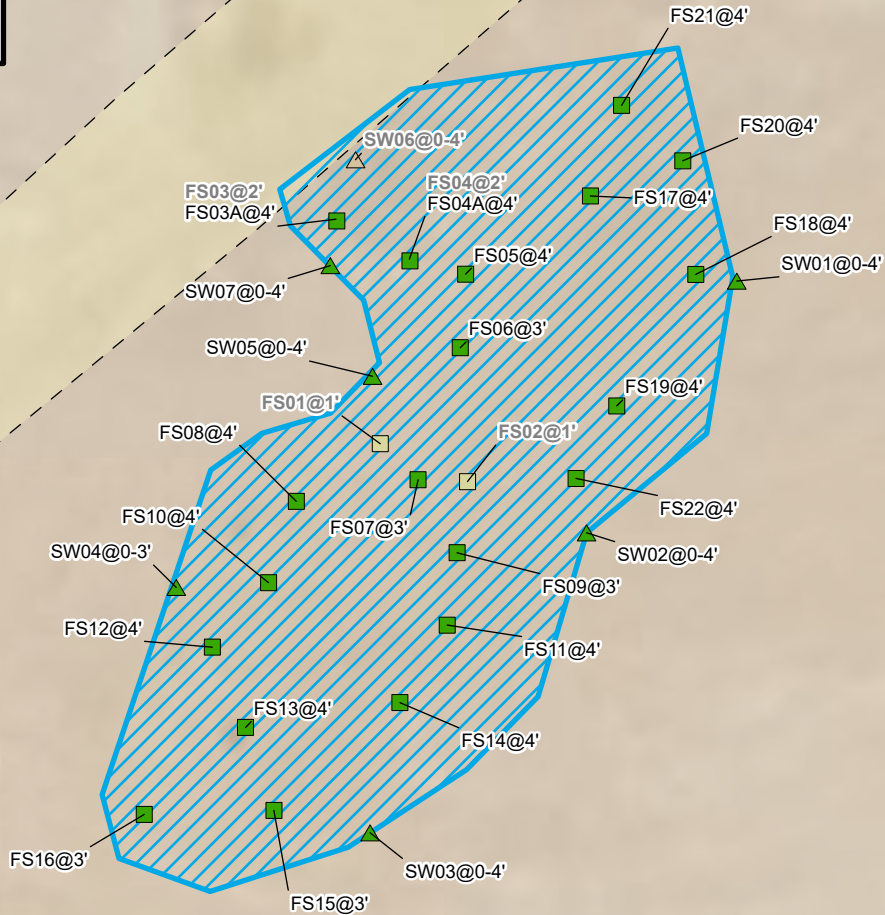
XTO Energy, Inc
PLU PIERCE CANYON 17 FED SWD 001
Incident Number: NAPP2216839215
Unit N, Sec 17, T25S, R30E
Eddy County, New Mexico

FIGURE

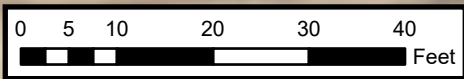
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample - Removed
- Excavation Floor Sample - Removed
- Restricted Area
- Excavation Extent selection



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

XTO Energy, Inc
PLU PIERCE CANYON 17 FED SWD 001
Incident Number: NAPP2216839215
Unit N, Sec 17, T25S, R30E
Eddy County, New Mexico

FIGURE

3



TABLE



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Pierce Canyon 17 SWD 1
XTO Energy, Inc.
Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Delineation Soil Sample Analytical Results | | | | | | | | | | |
| SS01 | 07/26/2022 | 0.2 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 19,000 |
| PH01 | 08/24/2022 | 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,640 |
| PH01 | 08/24/2022 | 3 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 247 |
| SS02 | 07/26/2022 | 0.2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13,600 |
| PH02 | 08/24/2022 | 2 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,080 |
| SS03 | 07/26/2022 | 0.2 | <0.00198 | <0.00397 | <50.0 | 94.4 | 57.1 | 152 | 152 | 36,900 |
| PH03 | 08/24/2022 | 2 | <0.00202 | <0.00404 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 9,770 |
| SS04 | 07/26/2022 | 0.2 | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 17,700 |
| SS05 | 08/24/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 522 |
| SS06 | 08/24/2022 | 0.5 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 282 |
| SS07 | 08/24/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 387 |
| SS08 | 08/24/2022 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 467 |
| Excavation Soil Sample Analytical Results | | | | | | | | | | |
| FS01 | 08/24/2022 | 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 2,730 |
| FS02 | 08/24/2022 | 4 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5,180 |
| FS03 | 11/27/2023 | 2 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 774 |
| FS03A | 01/26/2024 | 4 | <0.00198 | <0.00397 | <50.4 | <50.4 | <50.4 | <50.4 | <50.4 | 111 |
| FS04 | 11/27/2023 | 2 | <0.00200 | <0.00399 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 1,940 |
| FS04A | 01/26/2024 | 4 | <0.00201 | <0.00402 | <49.6 | <49.6 | <49.6 | <49.6 | <49.6 | 98.7 |
| FS05 | 12/01/2023 | 4 | <0.00199 | <0.00398 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 2,060 |
| FS06 | 11/28/2023 | 3 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 141 |
| FS07 | 11/27/2023 | 3 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 228 |
| FS08 | 12/01/2023 | 4 | <0.00200 | <0.00399 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 1,890 |
| FS09 | 11/27/2023 | 3 | <0.00199 | <0.00398 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 23.1 |
| FS10 | 12/01/2023 | 4 | <0.00200 | <0.00399 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 75.5 |
| FS11 | 12/01/2023 | 4 | <0.00200 | <0.00401 | <50.5 | <50.5 | <50.5 | <50.5 | <50.5 | 207 |
| FS12 | 12/01/2023 | 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 21.1 |
| FS13 | 12/01/2023 | 4 | <0.00198 | <0.00396 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 25.1 |
| FS14 | 12/01/2023 | 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 248 |
| FS15 | 11/28/2023 | 3 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 38.3 |
| FS16 | 11/28/2023 | 3 | <0.00200 | <0.00401 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 102 |
| FS17 | 12/01/2023 | 4 | <0.00200 | <0.00399 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 1,870 |



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Pierce Canyon 17 SWD 1
XTO Energy, Inc.
Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| FS18 | 12/01/2023 | 4 | <0.00200 | <0.00401 | <50.4 | <50.4 | <50.4 | <50.4 | <50.4 | 2,190 |
| FS19 | 12/01/2023 | 4 | <0.00199 | <0.00398 | <50.5 | <50.5 | <50.5 | <50.5 | <50.5 | 2,110 |
| FS20 | 12/01/2023 | 4 | <0.00200 | <0.00399 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 3,460 |
| FS21 | 12/01/2023 | 4 | <0.00200 | <0.00401 | <50.5 | <50.5 | <50.5 | <50.5 | <50.5 | 2,920 |
| FS22 | 12/01/2023 | 4 | <0.00199 | <0.00398 | <49.6 | <49.6 | <49.6 | <49.6 | <49.6 | 230 |
| SW01 | 12/01/2023 | 0-4 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 36 |
| SW02 | 11/29/2023 | 0-4 | <0.00199 | <0.00398 | <49.6 | <49.6 | <49.6 | <49.6 | <49.6 | 23.5 |
| SW03 | 11/29/2023 | 0-4 | <0.00198 | <0.00396 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 7.21 |
| SW04 | 11/28/2023 | 0-3 | <0.00198 | <0.00396 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | 119 |
| SW05 | 12/01/2023 | 0-4 | <0.00198 | <0.00396 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 565 |
| SW06 | 12/01/2023 | 0-4 | <0.00200 | <0.00400 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 2,470 |
| SW07 | 01/26/2024 | 0-4 | <0.00199 | <0.00398 | <50.5 | <50.5 | <50.5 | <50.5 | <50.5 | 142 |

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 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
Gray text indicates soil sample was removed during excavation activities



APPENDIX A

September 2, 2022 *Closure Request*



September 2, 2022

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**Re: Closure Request
PLU Pierce Canyon 17 Fed SWD 001
Incident Number NAPP2216839215
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 site assessment, excavation, and soil sampling activities at the PLU Pierce Canyon 17 Fed SWD 001 (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of brine water. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request, describing site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number NAPP2216839215.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 17, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.126021° N, 103.904223°W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On June 5, 2022, a leaking valve and seal resulted in the release of approximately 6 barrels (bbls) of brine water during drilling operations. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 5.5 bbls of released brine water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on June 17, 2022. The release was assigned Incident Number NAPP2216839215.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. 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 depth to groundwater data points existing in all cardinal directions, the absence of nearby shallow surface water, and the absence of underlying unstable geology. XTO acknowledges that there

is no existing water well with depth to groundwater data within ½ mile of the Site, which NMOCD prefers for depth to water estimates. However, 19.15.29.11 A.(2) indicates that a reasonable determination of probably depth to water can be generated using other tools and information. The Procedures for Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019, also provides that alternative applicable information can be presented and reviewed on a case-by-case basis. XTO requests NMOCD consider this estimate through a site-specific analysis of data provided.

On February 4, 2020, a New Mexico Office of the State Engineer (NMOSE) soil boring, C-04394, was drilled approximately 1.1 miles southwest of the Site. No groundwater was encountered in the soil boring. In addition, five NMOSE water wells and soil borings and four United States Geological Survey (USGS) wells surround the Site in all cardinal directions at distances ranging from approximately 1.4 miles to 4.5 miles from the Site. One soil boring was only drilled to 55 feet bgs but it was dry and all other wells and soil borings confirm depth to groundwater in the area is greater than 100 feet bgs. There are no anomalies and the information provided indicates groundwater flows generally southwest, toward Brushy and Tucker draws and, ultimately, the Pecos River. Topography is consistently flat, representative of underlying uniform geology. The area is designated by BLM as low-potential for karst geology. Multiple depth to groundwater data points exist around the Site and there are no surface features indicative of the presence of shallow groundwater. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 3,975 feet south of the Site. The Site is greater than 200 feet from any 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). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 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

SITE ASSESSMENT ACTIVITIES

On July 26, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four preliminary soil samples (SS01 through SS04) were collected within the release extent from a depth of approximately 0.2 feet bgs to assess the impacts to soil. The preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site assessment and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of 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 Method 300.0.

Laboratory analytical results for preliminary soil sample SS03 indicated that chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, excavation and delineation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On August 24, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities. Surface samples SS05 through SS08 and samples from potholes (PH01 through PH03) advanced at the existing preliminary soil sample locations were collected within and around the release extent to assess the lateral and vertical extent of the release. Samples SS05 through SS08 were collected at a depth of 0.5 feet bgs laterally around the release. Potholes PH01 through PH03 were advanced within the release extent via backhoe at depths ranging from 2 feet to 3 feet bgs. Soil from the delineation samples was field screened for volatile aromatic hydrocarbons and chloride using a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The potholes and delineation soil sample locations are depicted on Figure 2.

Impacted soil was excavated from the release area as indicated by visible staining, field screening activities, and laboratory analytical results at preliminary soil sample SS03. Excavation activities were performed using a backhoe and transport vehicle. To direct excavation activities, Ensolum personnel screened soil for volatile aromatic hydrocarbons and chloride. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 and FS02 were collected from the floor of the excavation at a depth of 1 foot bgs. Due to the shallow depth of the excavation, sidewalls of the excavation were included in FS01 and FS02. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 220 square feet. A total of approximately 10 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for pothole samples PH01 through PH03 collected at depths ranging from 2 feet bgs to 3 feet bgs indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for delineation soil samples SS05 through SS08, collected at 0.5 feet bgs and pothole PH01 collected at 3 feet bgs indicated TPH and chloride concentrations were compliant with the strictest Table 1 Closure Criteria, providing lateral and vertical delineation of the release. Laboratory analytical results for the excavation soil samples FS01 through FS02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride

concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D. Appendix E provides correspondence email notification receipts associated with the subject release.

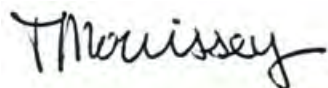
CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 5, 2022, release of brine water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. In addition, delineation soil samples SS05 through SS08 and PH01 at 3 feet bgs provide lateral and vertical delineation of the release to the strictest Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

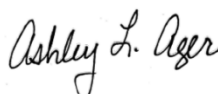
Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2216839215.

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

Sincerely,
Ensolum, LLC



Tacoma Morrissey
Senior Geologist



Ashley L. Ager, M.S., P.G.
Program Director

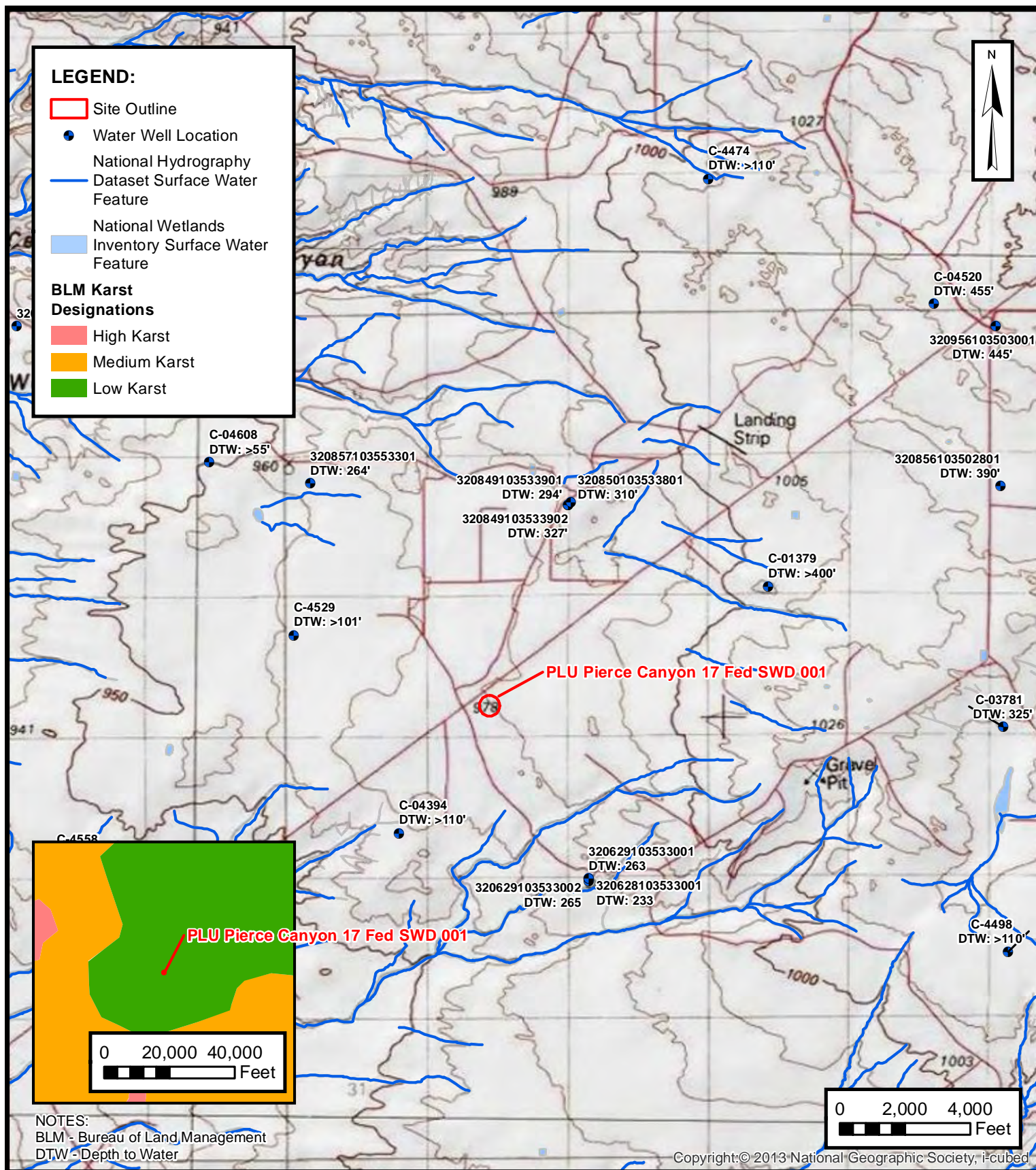
cc: Garrett Green, XTO
Shelby Pennington, XTO
Bureau of Land Management

Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Figure 3 | Excavation Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Referenced Well Records |
| Appendix B | Photographic Log |
| Appendix C | Lithologic / Soil Sampling Logs |
| Appendix D | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix E | NMOCD Notifications |



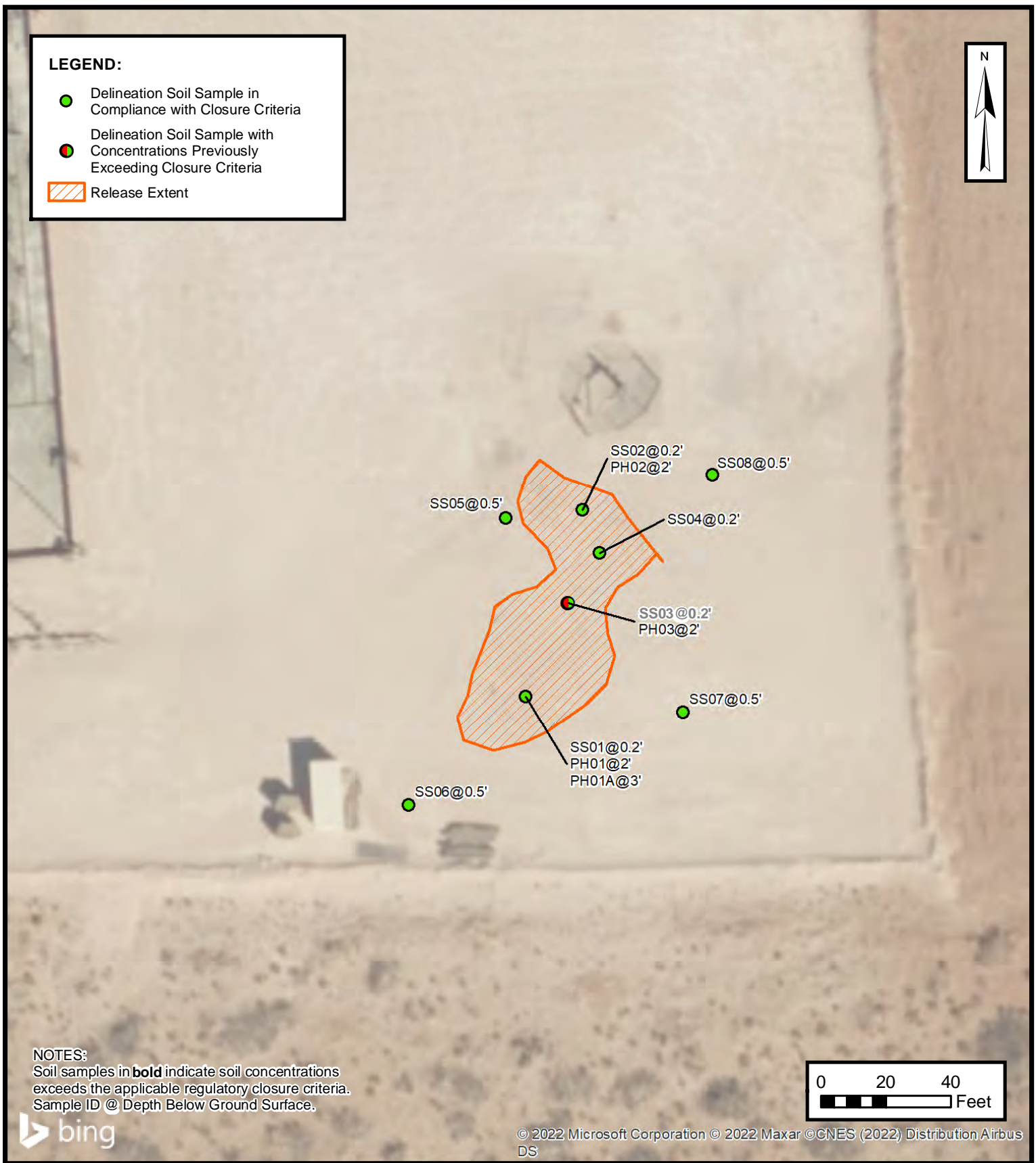
FIGURES



SITE RECEPTOR MAP

XTO ENERGY, INC
 PLU PIERCE CANYON 17 FED SWD 001
 NAPP2216839215
 Unit N, Sec 17, T25S, R30E
 Eddy County, New Mexico

FIGURE
1



DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU PIERCE CANYON 17 FED SWD 001
NAPP2216839215
Unit N, Sec 17, T25S, R30E
Eddy County, New Mexico

FIGURE
2



EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
 PLU PIERCE CANYON 17 FED SWD 001
 NAPP2216839215
 Unit N, Sec 17, T25S, R30E
 Eddy County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Pierce Canyon 17 SWD 1
XTO Energy, Inc.
Eddy County, New Mexico

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| Delineation Soil Sample Analytical Results | | | | | | | | | | |
| SS01 | 07/26/2022 | 0.2 | <0.00202 | <0.00403 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 19,000 |
| PH01 | 08/24/2022 | 2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,640 |
| PH01 | 08/24/2022 | 3 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 247 |
| SS02 | 07/26/2022 | 0.2 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 13,600 |
| PH02 | 08/24/2022 | 2 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,080 |
| SS03 | 07/26/2022 | 0.2 | <0.00198 | <0.00397 | <50.0 | 94.4 | 57.1 | 152 | 152 | 36,900 |
| PH03 | 08/24/2022 | 2 | <0.00202 | <0.00404 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 9,770 |
| SS04 | 07/26/2022 | 0.2 | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 17,700 |
| SS05 | 08/24/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 522 |
| SS06 | 08/24/2022 | 0.5 | <0.00200 | <0.00401 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 282 |
| SS07 | 08/24/2022 | 0.5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 387 |
| SS08 | 08/24/2022 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 467 |
| Excavation Soil Sample Analytical Results | | | | | | | | | | |
| FS01 | 08/24/2022 | 1 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 2,730 |
| FS02 | 08/24/2022 | 1 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5,180 |

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 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics


TPH: Total Petroleum Hydrocarbon


Gray text indicates soil sample was removed during excavation activities




APPENDIX A


Referenced Well Records


|  | | LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: MW01 C 4394 Date: 2/4/2020 | | | | |
|---|----------------|--|----------|---|------------------|--------------|----------------|---|
| Project Name: PLU 423 | | RP Number: ZRP-3790 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: FS | | Method: SONIC | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID | | Hole Diameter: 4"/6" | | | | |
| Total Depth: 110' | | | | | | | | |
| Comments: No sampling, lithology remarks only | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| | | | | | 1 | | | hydravac excavated (refusal @ 1') |
| | | | | | 2 | | | 2.5' SAND, dry, well graded, coarse-fine graind, |
| | | | | | 3 | | SW-S | light brwn - tan, no stain, no odor |
| | | | | | 4 | | | 5' few silty sand pockets, reddish brwn, no plas, non cohesive |
| | | | | | 5 | | | |
| | | | | | 6 | | | |
| | | | | | 7 | | SP | 6' SAND, dry, poorly graded, light brwn - brwn, fine - very fine |
| | | | | | 8 | | | |
| | | | | | 9 | | | 7.5' some mod. consol. ss |
| | | | | | 10 | | SW-S | light brwn - brwn, sub rounded |
| | | | | | 11 | | | 10' abundant ss 10-11' color change |
| | | | | | 12 | | | 12' ss gravel? absent tan-off white |
| | | | | | 13 | | SP | 16' abundant ss gravel 13' back t/ (mod consol) light brwn - brwn |
| | | | | | 14 | | | 19' abundant - some |
| | | | | | 15 | | | 21.5' sandstone, light, abundant brwn - tan, dry, mod well consolidated |
| | | | | | 16 | | SW-S | |
| | | | | | 17 | | | 23' sandstone chunks absent |
| | | | | | 18 | | | |
| | | | | | 19 | | | |
| | | | | | 20 | | | |
| | | | | | 21 | | | |
| | | | | | 22 | | | |
| | | | | | 23 | | | |
| | | | | | 24 | | | |
| | | | | | 25 | | | |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: MW01 C 4394 | Date: 2/4/2020 | | | | | |
|--|----------------|--|-------------------------------|----------|------------------|--------------|----------------|--|
| Project Name: PLU 423 | | RP Number: 2RP-2674 2RP-3790 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: FS | Method: SONIC | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID | Hole Diameter: 4" / 6" | | | | | |
| Total Depth: 110' | | Comments: | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| D | | | Z | | 26 | | | 27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine |
| D | | | Z | | 27 | | | grey - grey |
| D | | | Z | | 28 | | SP | 30' trace light brown-tan caliche pebbles (gravel), rounded |
| D | | | Z | | 29 | | | |
| D | | | Z | | 30 | | | |
| D | | | Z | | 31 | | | 31' caliche pebbles absent |
| D | | | Z | | 32 | | | 31.5' color change |
| D | | | Z | | 33 | | | light brown - reddish brown |
| M | | | Z | | 34 | | | 33-34' abundant ss chunks, mod consol |
| M | | | Z | | 35 | | | 35' ss chunks absent |
| M | | | Z | | 36 | | SW-S | 36' some clay pockets, reddish brown, few pebbles, rounded - subrounded, grey - light grey, few laminations w/ clay, caliche, dolomite |
| M | | | Z | | 37 | | | |
| M | | | Z | | 38 | | | |
| M | | | Z | | 39 | | | |
| M | | | Z | | 40 | | | |
| M | | | Z | | 41 | | | 42.5' clay laminations, trace, reddish brown |
| M | | | Z | | 42 | | | |
| M | | | Z | | 43 | | | 44' color change, light brown-tan, SILTY sand |
| D | | | Z | | 44 | | | |
| D | | | Z | | 45 | | SP-SM | 44.5 some SILTY sand, light brown - tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown |
| D | | | Z | | 46 | | | |
| D | | | Z | | 47 | | | 48.5' low plas clay band, orange (35-40 mm) |
| D | | | Z | | 48 | | | 49.5' faint yellow band, (15-20 mm) |
| D | | | Z | | 49 | | | |
| D | | | Z | | 50 | | | |

rig adding water

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: MW01 C 4394 | Date: 2/4/2020 | | | | | |
|--|----------------|---------------------------------------|-------------------------------|----------|------------------|--------------|----------------|---|
| | | Project Name: PLU 423 | RP Number: ZRP-3790 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: FS | Method: sonic | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PH | Hole Diameter: 4" / 6" | | | | | |
| Total Depth: 110' | | | | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| U | | | Z | | 51 | | SP | 51.5' trace, high plas clay nodules |
| U | | | Z | | 52 | | | |
| U | | | Z | | 53 | | | 53-54' some silty ss, poorly consolidated |
| M | | | Z | | 54 | | | |
| M | | | Z | | 55 | | | 55.5' color change tan-grey band (30mm) |
| M | | | Z | | 56 | | | |
| M | | | Z | | 57 | | | 59.5' SILTY sand, light |
| M | | | Z | | 58 | | | brwn-brwn, moist, |
| M | | | Z | | 59 | | | no plas, non cohesive, |
| M | | | Z | | 60 | | SM | no stain |
| U | | | Z | | 61 | | | 62' more consolidated |
| M | | | Z | | 62 | | | 64' dark brwn color |
| U | | | Z | | 63 | | sm-s | change, silty |
| M | | | Z | | 64 | | | clay nodules |
| M | | | Z | | 65 | | | 66' pockets of silty |
| M | | | Z | | 66 | | | clay brwn-green |
| U | | | Z | | 67 | | | 68' low plas clay pockets |
| M | | | Z | | 68 | | | some, few low plas |
| U | | | Z | | 69 | | | clay laminations |
| M | | | Z | | 70 | | | |
| U | | | Z | | 71 | | | 71' SILTY sand, dry, |
| M | | | Z | | 72 | | SM | no plas, non cohesive, |
| U | | | Z | | 73 | | | light brwn-tan |
| M | | | Z | | 74 | | | 74' trace caliche pebbles, |
| U | | | Z | | 75 | | | light grey-grey |

|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: MWD1 C 4394 Project Name: PLU 423 | Date: 2/4/2020 RP Number: 2RP-3790 | | | | | |
|--|----------------|--|---|----------|------------------|--------------|----------------|--|
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: FS, BS Hole Diameter: 6"/4" | Method: sonic Total Depth: 110' | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID | | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| D | | | N | | 76 | | SM | 76.5' trace low plas clay nodules, reddish brwn |
| D | | | N | | 77 | | | |
| D | | | N | | 78 | | | 82' CLAY ^{STONE} , moist, brwn-greenish grey, low plasticity, cohesive, no stain, no odor, mod consolidated |
| D | | | N | | 79 | | | |
| D | | | N | | 80 | | | |
| D | | | N | | 81 | | | 85' SILTY sand, dry, light brwn-brwn, no plas, non cohesive, no stain, no odor |
| D | | | N | | 82 | | CL-S | |
| D | | | N | | 83 | | | |
| D | | | N | | 84 | | | |
| D | | | N | | 85 | | SM | 87' color change tan-off white |
| D | | | N | | 86 | | | 88' light brwn-brwn |
| D | | | N | | 87 | | SM-S | |
| D | | | N | | 88 | | | 87' SILTSTONE, dry, w/ clay pockets, low plas |
| D | | | N | | 89 | | | |
| D | | | N | | 90 | | | 91' abundant clay pockets |
| D | | | N | | 91 | | | |
| D | | | N | | 92 | | | 94.5' band yellow low plas clay |
| D | | | N | | 93 | | | |
| D | | | N | | 94 | | SM | |
| D | | | N | | 95 | | CH | end @ 95' 2/4/2020 |
| D | | | N | | 96 | | | 2/5/20 |
| D | | | N | | 97 | | | 95'-101' CLAY, moist, brown-dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor. |
| D | | | N | | 98 | | | 98'-99' tan fine grain sandstone stringers. |
| D | | | N | | 99 | | | |
| D | | | N | | 100 | | | |

| | | | | | | | | |
|--|----------------|----------------------------------|------------------------|----------|------------------|--------------|----------------|--|
|  LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation | | Identifier: MWO F 4394 | Date: 2/5/2020 | | | | | |
| | | Project Name: PLU 423 | RP Number: 2RP-3790 | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | Logged By: BP | Method: Sonic | | | | | |
| Lat/Long: | | Field Screening: CHLORIDES, PID. | Hole Diameter: 6" / 4" | | | | | |
| | | | Total Depth: 110' | | | | | |
| Comments: | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
| D | | | N | | 101 | | CH SP-S | 101' - 105' SANDSTONE, tan - light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor. |
| D | | | N | | 102 | | | |
| D | | | N | | 103 | | | |
| D | | | N | | 104 | | | |
| N | | | N | | 105 | | CH | 105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, true tan sand laminations, no stain, no odor. |
| N | | | N | | 106 | | | |
| N | | | N | | 107 | | | |
| N | | | N | | 108 | | | |
| N | | | N | | 109 | | | 107' - 109' tan - light brown well consolidated fine green sandstone stringer. |
| N | | | N | | 110 | | | |
| | | | | | 111 | | TD @ 110' | TD @ 110' |
| | | | | | 112 | | | |
| | | | | | 113 | | | |
| | | | | | 114 | | | |
| | | | | | 115 | | | |
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| | | | | | 125 | | | |



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USGS 320629103533002 25S.30E.21.33342 A

Eddy County, New Mexico

Latitude 32°06'29", Longitude 103°53'30" NAD27

Land-surface elevation 3,209 feet above NAVD88

The depth of the well is 280 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

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| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|----------------------|
| 1949-03-10 | | | D | 62610 | 2939.36 | NGVD29 | P | | Z | |
| 1949-03-10 | | | D | 62611 | 2941.00 | NAVD88 | P | | Z | |
| 1949-03-10 | | | D | 72019 | 268.00 | | P | | Z | |
| 1992-11-06 | | | D | 62610 | 2942.38 | NGVD29 | P | | S | |
| 1992-11-06 | | | D | 62611 | 2944.02 | NAVD88 | P | | S | |
| 1992-11-06 | | | D | 72019 | 264.98 | | P | | S | |

Explanation

| Section | Code | Description |
|--------------------------------|-------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |

| Section | Code | Description |
|-----------------------------|--------|--|
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | P | Pumping |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2022-08-30 11:40:58 EDT
0.28 0.25 nadww01



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us


| | | | | | | | | |
|--|---|----------------------------|--|---|---|--|---|--------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (MW-1) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4529 | | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32° | MINUTES 8' | SECONDS 2.07" N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | |
| | LONGITUDE 103° | 55' | 42.27" W | * DATUM REQUIRED: WGS 84 | | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW Sec. 18 T25S R30E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 05/14/2021 | | DRILLING ENDED 05/14/2021 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 101 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 101 | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| | | | | | |
|----------|--------|----------------|-----------------|---------|-------------|
| FILE NO. | C-4529 | POD NO. | 1 | TRN NO. | 692934 |
| LOCATION | Exp1 | 25S.30E.18.131 | WELL TAG ID NO. | — | PAGE 1 OF 2 |

OSE DT JUN 10 2021 PM 2:45

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | 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) |
|---|---|---|---------------------|--|---|--|
| | FROM | TO | | | | |
| | 0 | 4 | 4 | SAND, poorly graded, fine-very grained, caliche gravel, Reddish-brown, dry | Y ✓ N | |
| | 4 | 29 | 25 | CALICHE, poorly consolidated, with sand medium grained, tan-off white, dry | Y ✓ N | |
| | 29 | 39 | 10 | SAND, poorly graded, fine-very grained, some caliche gravel, Tan-brown, dry | Y ✓ N | |
| | 39 | 54 | 15 | SILTY SAND, poorly graded, very- fine grained, Light brown, dry | Y ✓ N | |
| | 54 | 59 | 5 | SILTY SAND, poorly graded, very- fine grained, caliche gravel Light brown, dry | Y ✓ N | |
| | 59 | 73 | 14 | SANDY CLAY, very-fine grained sand, low plasticity, Brown- Red Brown, moist | Y ✓ N | |
| | 73 | 79 | 6 | CLAYEY SAND, low plasticity, very-fine grained sand, Brown/Red Brown, moist | Y ✓ N | |
| | 79 | 83 | 4 | SANDY CLAY, very-fine grained sand, low plasticity, Brown- Dark Brown, moist | Y ✓ N | |
| | 83 | 94 | 9 | SANDY CLAY, very-fine grained sand, low plasticity, Reddish Brown, moist | Y ✓ N | |
| | 94 | 99 | 5 | SANDY CLAY, very-fine grained sand, low plasticity, Brown-Dark Brown, dry | Y ✓ N | |
| | 99 | 101 | 2 | SANDY CLAY, very-fine grained sand, low plasticity, Earth Brown, dry | 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: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| 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: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div> | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.

C-4525

POD NO.

1

TRN NO.

692934

LOCATION

WELL TAG ID NO.

PAGE 2 OF 2

OSE DT JUN 10 2021 PM 2:46



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. [Read more.](#)
- [Full News](#)

Groundwater levels for the Nation

! Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320849103533902

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320849103533902 25S.30E.08.242221A

Eddy County, New Mexico

Latitude 32°08'49", Longitude 103°53'39" NAD27

Land-surface elevation 3,230 feet above NAVD88

The depth of the well is 500 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

| |
|------------------------------------|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|----------------------|
| | | | | | | | | | | |
| 1961-06-14 | | | D | 62610 | 2896.80 | NGVD29 | P | | Z | |
| 1961-06-14 | | | D | 62611 | 2898.45 | NAVD88 | P | | Z | |
| 1961-06-14 | | | D | 72019 | 331.55 | | P | | Z | |
| 1998-01-28 | | | D | 62610 | 2901.82 | NGVD29 | 1 | | S | |
| 1998-01-28 | | | D | 62611 | 2903.47 | NAVD88 | 1 | | S | |
| 1998-01-28 | | | D | 72019 | 326.53 | | 1 | | S | |

Explanation

| Section | Code | Description |
|--------------------------------|-------|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |

| Section | Code | Description |
|-----------------------------|--------|--|
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Status | P | Pumping |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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Page Last Modified: 2022-08-30 11:38:26 EDT
1.59 0.41 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. [Read more.](#)
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320857103553301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320857103553301 25S.30E.07.112331

Eddy County, New Mexico

Latitude 32°08'57", Longitude 103°55'33" NAD27

Land-surface elevation 3,169 feet above NAVD88

The depth of the well is 385 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

| Date | Time | ? Water-level date-time accuracy | ? Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Status | ? Method of measurement | ? Measuring agency | ? Source measu |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|----------------------|
| | | | | | | | | | | |
| 1959-02-05 | | | D | 62610 | 2903.75 | NGVD29 | 1 | | Z | |
| 1959-02-05 | | | D | 62611 | 2905.37 | NAVD88 | 1 | | Z | |
| 1959-02-05 | | | D | 72019 | 263.63 | | 1 | | Z | |
| 1959-03-07 | | | D | 62610 | 2904.08 | NGVD29 | 1 | | Z | |
| 1959-03-07 | | | D | 62611 | 2905.70 | NAVD88 | 1 | | Z | |
| 1959-03-07 | | | D | 72019 | 263.30 | | 1 | | Z | |
| 1987-10-20 | | | D | 62610 | 2903.13 | NGVD29 | 1 | | Z | |
| 1987-10-20 | | | D | 62611 | 2904.75 | NAVD88 | 1 | | Z | |
| 1987-10-20 | | | D | 72019 | 264.25 | | 1 | | Z | |
| 1992-11-06 | | | D | 62610 | 2904.38 | NGVD29 | 1 | | S | |
| 1992-11-06 | | | D | 62611 | 2906.00 | NAVD88 | 1 | | S | |
| 1992-11-06 | | | D | 72019 | 263.00 | | 1 | | S | |
| 1998-01-28 | | | D | 62610 | 2903.26 | NGVD29 | 1 | | V | |
| 1998-01-28 | | | D | 62611 | 2904.88 | NAVD88 | 1 | | V | |
| 1998-01-28 | | | D | 72019 | 264.12 | | 1 | | V | |

| Explanation | | |
|--------------------------------|--------|--|
| Section | Code | Description |
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Parameter code | 62610 | Groundwater level above NGVD 1929, feet |
| Parameter code | 62611 | Groundwater level above NAVD 1988, feet |
| Parameter code | 72019 | Depth to water level, feet below land surface |
| Referenced vertical datum | NAVD88 | North American Vertical Datum of 1988 |
| Referenced vertical datum | NGVD29 | National Geodetic Vertical Datum of 1929 |
| Status | 1 | Static |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | V | Calibrated electric-tape measurement. |
| Method of measurement | Z | Other. |
| Measuring agency | | Not determined |
| Source of measurement | | Not determined |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
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0.56 0.46 nadww02

Revised June 1972

SF

STATE ENGINEER OFFICE
WELL RECORD

OFFICE OF
STATE ENGINEER
SANTA FE, NEW MEXICO

Section 1. GENERAL INFORMATION

(A) Owner of well James R Lofton Owner's Well No. 01 SEP 4 PM 1 40
Street or Post Office Address 1668 CR 3
City and State Clovis, NM 88101

Well was drilled under Permit No. CC-1379 and is located in the:
a. NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 18 Township 1N Range 35E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in Curry County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Jimmy F Roman License No. WD-395
Address 1300 Piedmont Dr. Clovis, NM 88101
Drilling Began Apr 30, 01 Completed Apr 30, 01 Type tools Rotary Size of hole 8 1/2
Elevation of land surface or _____ at well is _____ ft. Total depth of well 205 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 169 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

| Depth in Feet | | Thickness in Feet | Description of Water-Bearing Formation | Estimated Yield (gallons per minute) |
|---------------|-----|----------------------|--|---|
| From | To | | | |
| 169 | 196 | 27 | River Sand Course | |
| 196 | 205 | 09 | Red Bed | |
| | | | | |
| | | | | |

Section 3. RECORD OF CASING

| Diameter (inches) | Pounds per foot | Threads per in. | Depth in Feet | | Length (feet) | Type of Shoe | Perforations | |
|----------------------|--------------------|--------------------|---------------|--------|------------------|--------------|--------------|-----|
| | | | Top | Bottom | | | From | To |
| 5" | 2,324 | 0 | 0 | 205 | 205 | None | 185 | 205 |
| | | | | | | | | |
| | | | | | | | | |

Section 4. RECORD OF MUDDING AND CEMENTING

| Depth in Feet | | Hole Diameter | Sacks of Mud | Cubic Feet of Cement | Method of Placement |
|---------------|----|------------------|-----------------|-------------------------|---------------------|
| From | To | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

| No. | Depth in Feet | | Cubic Feet of Cement |
|-----|---------------|--------|-------------------------|
| | Top | Bottom | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

FOR USE OF STATE ENGINEER ONLY

Date Received August 16, 2001 Quad _____ FWL _____ FSL _____
File No. CC-1379 Use Dom Location No. 1N.35E.18.342

T # 209282

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--|---|---------------------------|--|---|---|--|---|-----------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) C-4608 | | WELL TAG ID NO. n/a | | OSE FILE NO(S). POD-1 | | | |
| | WELL OWNER NAME(S) Lucid Energy Delaware, LLC | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 201 S. 4th St. | | | | CITY Artesia | STATE NM | ZIP 88210 | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 9 | SECONDS 5.31 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | |
| | | LONGITUDE 103 | 56 | 19.42 W | * DATUM REQUIRED: WGS 84 | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE NE NW Sec 12 T25S R29E, NMPM | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 04/19/2022 | | DRILLING ENDED 04/19/2022 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) ±55 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | DATE STATIC MEASURED 04/19/2022, 4/26/2022 | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger | | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | | | | n/a | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | n/a | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

| | | | | | |
|----------|------------|---------|-----------------|---------|-------------|
| FILE NO. | C-4608 | POD NO. | POD1 | TRN NO. | 723248 |
| LOCATION | 12 25S 29E | 1-1-2 | WELL TAG ID NO. | NA | PAGE 1 OF 2 |

4. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE



WELL RECORD & LOG

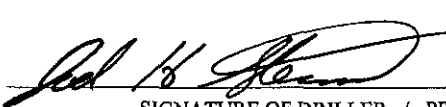
OFFICE OF THE STATE ENGINEER

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| | | | | | | | |
|--|---|----------------------------|---|--|--|------------------------------|--------------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NUMBER (WELL NUMBER) <i>Renumbered C-3832-POD1</i> | | | OSE FILE NUMBER(S) <i>Renumbered C-3781(exploratory) C-3832</i> | | | |
| | WELL OWNER NAME(S) BOPCO, L.P. | | | PHONE (OPTIONAL) (817) 390-8662 | | | |
| | WELL OWNER MAILING ADDRESS 201 N Main St Suite 2900 | | | CITY STATE ZIP Fort Worth TX 76102 | | | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 07 | SECONDS 26.2 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | LONGITUDE 103 | 50 | 28.5 W | * DATUM REQUIRED: WGS 84 | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE1/4SW1/4SW1/4SW1/4 of Section 13, Township 25 South, Range 30 East, in the NW corner of a well pad. | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NUMBER 331 | | NAME OF LICENSED DRILLER Joel H. Stewart | | NAME OF WELL DRILLING COMPANY SBQ Drilling, LLC | | |
| | DRILLING STARTED 01-08-15 | DRILLING ENDED 01-10-15 | DEPTH OF COMPLETED WELL (FT) 720 | BORE HOLE DEPTH (FT) ±720 | DEPTH WATER FIRST ENCOUNTERED (FT) | | |
| | COMPLETED WELL IS: <input checked="" type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input type="radio"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) 325 | | |
| | DRILLING FLUID: <input type="radio"/> AIR <input checked="" type="radio"/> MUD ADDITIVES - SPECIFY: | | | | | | |
| | DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY: | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) |
| | FROM | TO | | | | | |
| | 0 | 340 | 14.75 | AS1M A53B | Welded | 8.625 | 0.322 |
| | 340 | 720 | 14.75 | 304 Stainless Steel | Welded | 8.625 | 0.25 |
| | 0 | 19 | 19 | AS1M A53B | --- | 16 | 0.25 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | FROM | TO | | | | | |
| | 0 | 95 | 14.75 | Sand Mix Ready Mix | 68.21 | grav. tremie meas. | |
| | 95 | 190 | 14.75 | Hydrated Bentonite Chips | 68.21 | grav. tremie meas. | |
| | 190 | 210 | 14.75 | Neat Cement Grout | 14.36 | tremie pipe | |
| | 210 | 235 | 14.75 | Hydrated Bentonite Chips | 17.95 | grav. tremie meas. | |
| | 235 | 720 | 14.75 | 6/9 Silica Sand | 348.24 | tremie pipe | |
| FOR OSE INTERNAL USE <i>Renumbered from C-3781-POD1</i> WR-20 WELL RECORD & LOG (Version 06/08/2012) FILE NUMBER <i>C-3832</i> POD NUMBER <i>POD1</i> TRN NUMBER <i>555114</i> LOCATION <i>25.30.13.3834</i> PAGE 1 OF 2 | | | | | | | |

| DEPTH (feet bgl) | 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) |
|--|------------------|-----|--|--|---|
| | FROM | TO | | | |
| 0 | 50 | 50 | Cemented Sand, light tan, sub-angular | <input type="radio"/> Y <input type="radio"/> N | |
| 50 | 120 | 70 | Fine Sand, light tan, sub-angular to rounded | <input type="radio"/> Y <input type="radio"/> N | |
| 120 | 200 | 80 | Fine sand, tan to orange, sub-angular to rounded | <input type="radio"/> Y <input type="radio"/> N | |
| 200 | 370 | 170 | Fine sand, brownish orange, sub-angular to rounded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 370 | 390 | 20 | Medium sand, light tan, sub-angular to rounded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 390 | 410 | 20 | Medium sand, reddish brown, sub-angular to rounded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 410 | 440 | 30 | Sandstone with shale, brownish orange, med-coarse sand | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 440 | 460 | 20 | Silty Clay with some sand and shale, brownish red | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 460 | 470 | 10 | Coarse Sand with some silty clay and shale, brownish red | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 470 | 490 | 20 | Silty Clay with some sand and shale, brownish red | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 490 | 500 | 10 | 50% Silty Clay, 50% Fine Sand, reddish brown | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 500 | 510 | 10 | Fine Sand, tannish orange, sub-angular to rounded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 510 | 530 | 20 | Clayey Sand, reddish brown, sub-angular | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 530 | 660 | 130 | Sandy Clay with some shale, reddish brown | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 660 | 690 | 30 | Clayey Fine Sand with shale, reddish brown | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 690 | 700 | 10 | Sandy Clay, dark red, 5% shale | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| 700 | 720 | 20 | Clayey Fine Sand, reddish brown, 5% shale | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| | | | | <input type="radio"/> Y <input type="radio"/> N | |
| | | | | <input type="radio"/> Y <input type="radio"/> N | |
| | | | | <input type="radio"/> Y <input type="radio"/> N | |
| | | | | <input type="radio"/> Y <input type="radio"/> N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="radio"/> PUMP | | | | TOTAL ESTIMATED WELL YIELD (gpm): TBD | |
| <input type="radio"/> AIR LIFT <input type="radio"/> BAILER <input checked="" type="radio"/> OTHER - SPECIFY: TBD by pump test | | | | | |

| | | |
|--------------------------|---|---|
| 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: Pump test will be performed at a later time. Hydrated Bentonite Chips and Sand Mix Ready Mix were placed by gravity and tagged with tremie pipe. | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Silverio Galindo, Gabriel Armijo, Pedro Pizano | |

| | | |
|--------------|---|------------------------------------|
| 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 20 DAYS AFTER COMPLETION OF WELL DRILLING: | |
| |  SIGNATURE OF DRILLER / PRINT SIGNEE NAME | Joel H. Stewart 2-13-15 DATE |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

| | | | | | |
|-------------|---------------|------------|------|------------|-------------|
| FILE NUMBER | C-3832 | POD NUMBER | POD1 | TRN NUMBER | 555114 |
| LOCATION | 25.30.13.3334 | | | | PAGE 2 OF 2 |

Locator Tool Report**General Information:**

Application ID:27 Date: 05-28-2015 Time: 11:49:41

WR File Number: C-03781-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO EXPLORATORY WELL DRILLERS RECORD

Applicant Last Name: RENUMBERED C-3832-POD1

GW Basin: CARLSBAD

County: EDDY

Critical Management Area Name(s): NONE

Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

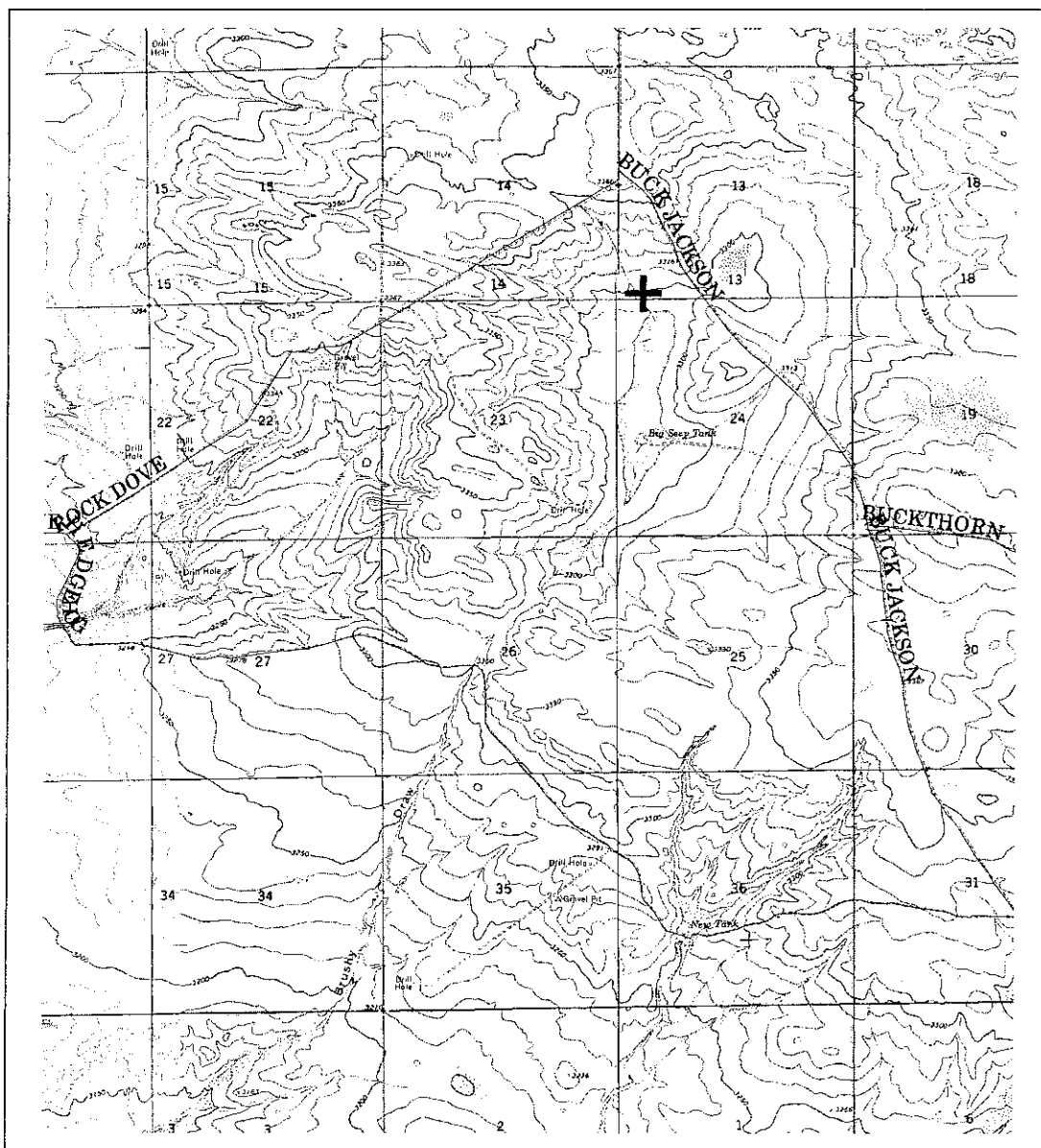
SE 1/4 of SW 1/4 of SW 1/4 of SW 1/4 of Section 13, Township 25S, Range 30E.

Coordinate System Details:**Geographic Coordinates:**Latitude: 32 Degrees 7 Minutes 26.2 Seconds N
Longitude: 103 Degrees 50 Minutes 28.5 Seconds W**Universal Transverse Mercator Zone: 13N**

| | | |
|----------------------------|---------------|--------------|
| NAD 1983(92) (Meters) | N: 3,554,762 | E: 609,306 |
| NAD 1983(92) (Survey Feet) | N: 11,662,581 | E: 1,999,031 |
| NAD 1927 (Meters) | N: 3,554,561 | E: 609,354 |
| NAD 1927 (Survey Feet) | N: 11,661,921 | E: 1,999,188 |

State Plane Coordinate System Zone: New Mexico East

| | | |
|----------------------------|------------|------------|
| NAD 1983(92) (Meters) | N: 124,717 | E: 211,432 |
| NAD 1983(92) (Survey Feet) | N: 409,175 | E: 693,673 |
| NAD 1927 (Meters) | N: 124,699 | E: 198,879 |
| NAD 1927 (Survey Feet) | N: 409,117 | E: 652,487 |

NEW MEXICO OFFICE OF STATE ENGINEER**Locator Tool Report**

WR File Number: C-03781-POD1 Scale: 1:49,965

Northing/Easting: UTM83(92) (Meter): N: 3,554,762 E: 609,306

Northing/Easting: SPCS83(92) (Feet): N: 409,175 E: 693,673

GW Basin: Carlsbad



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

| | | | | | | | | |
|---|---|----------------------------|--|---|---|--|---|--------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4498 | | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 | |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32° | MINUTES 6' | SECONDS 1.96" N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | | |
| | | LONGITUDE -103° | 50' | 26.19" W | * DATUM REQUIRED: WGS 84 | | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW SW NE Sec. 25 T25S R30E | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | |
| | DRILLING STARTED 02/24/2021 | | DRILLING ENDED 02/24/2021 | | DEPTH OF COMPLETED WELL (FT) temporary well material | BORE HOLE DEPTH (FT) 109 | DEPTH WATER FIRST ENCOUNTERED (FT) n/a | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 109 | ±6.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | | |
| | FROM | TO | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

| | | |
|-------------------------------|--------------------|----------------|
| FILE NO. C- 4498 | POD NO. 1 | TRN NO. 682528 |
| LOCATION 132 T25S R30E Sec 25 | WELL TAG ID NO. NA | PAGE 1 OF 2 |

| | DEPTH (feet bgl) | | 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) | |
|--|---|-----------|---|--|---------------------------------|--|--|
| | FROM | TO | | | | | |
| 4. HYDROGEOLOGIC LOG OF WELL | 0 | 34 | 34 | Caliche, tan, no odor, no stain, gravel, dry | Y ✓ N | | |
| | 34 | 40 | 6 | sand/ caliche, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | | |
| | 40 | 56 | 16 | sand, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | | |
| | 56 | 72 | 16 | sandstone, low consolidation, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | | |
| | 72 | 79 | 7 | sand, tan, no odor, no stain, m-f grain, well sorted, dry | Y ✓ N | | |
| | 79 | 109 | 30 | sandstone, low - medium consolidation, tan, no odor, m-f grained, well sorted, m | 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: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> 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 | | | | | | | |
| 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: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div> | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

| | | |
|-------------------------------|--------------------|----------------|
| FILE NO. C-4498 | POD NO. 1 | TRN NO. 682528 |
| LOCATION 132 T255 R30E Sec 25 | WELL TAG ID NO. NA | PAGE 2 OF 2 |

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 682528
File Nbr: C 04498
Well File Nbr: C 04498 POD1

Mar. 11, 2021

TACOMA MORRISEY
WSP USA
3300 NORTH A STREET
BLDG 1 #222
MIDLAND, TX 79705

Greetings:

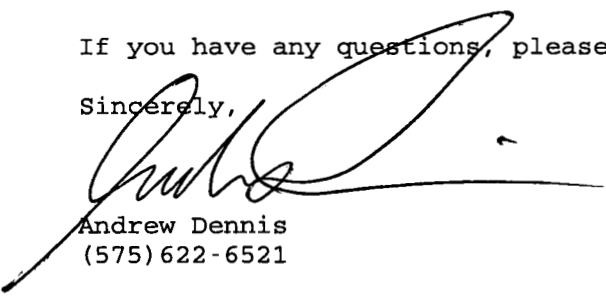
The above numbered permit was issued in your name on 12/01/2020.

The Well Record was received in this office on 03/11/2021, stating that it had been completed on 02/24/2021, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 12/01/2021.

If you have any questions, please feel free to contact us.

Sincerely,


Andrew Dennis
(575) 622-6521

drywell



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.

PLU PC 17 SWD 1

NAPP2216839215



Photograph 1

Date: 08/24/22

Description: Pothole activities.



Photograph 2

Date: 08/24/22

Description: Excavation activities.



Photograph 3

Date: 08/24/22

Description: Excavation activities.



Photograph 4


Date: 08/24/22


Description: Excavation activities.




APPENDIX C

Lithologic Soil Sampling Logs

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH01 | | Date: 08/24/22 | | | | |
|---|----------------|---------------------------------|--------------------|----------------|-----------------------|----------------|------------------|---|
| | | Site Name: PLU PC 17 SWD 1 | | | | | | |
| | | Incident Number: nAPP2216839215 | | | | | | |
| | | Job Number: 03E1558087 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.125946,-103.904268 | | | Logged By: CS/CW | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 3' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | >9,000 | 5.4 | N | SS01 | 0.2 | 1 | CCHE (fill) | 0-1', CALICHE, moist, tan-light brown, some small sub-round gravel, no stain, no odor, fill |
| D | 5,062 | 0.8 | N | | | | SP-SM | 1'-3', SILTY SAND, dry, reddish brown, fine grained, poorly graded, no stain, no odor. |
| D | 2,268 | 0.3 | N | PH01 | 2 | 2 | | |
| D | 324.8 | 0.2 | N | PH01 | 3 | 3 | | |
| | | | | | | | TD | Total Depth at 3 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH02 | | Date: 08/24/22 | | | | |
|---|----------------|---------------------------------|--------------------|----------------|-----------------------|----------------|------------------|---|
| | | Site Name: PLU PC 17 SWD 1 | | | | | | |
| | | Incident Number: nAPP2216839215 | | | | | | |
| | | Job Number: 03E1558087 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.126102,-103.904224 | | | Logged By: CS/CW | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 2 | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | >9,000 | 2.3 | N | SS02 | 0.2 | 1 | CCHE (fill) | 0-1', CALICHE, moist, tan-light brown, some small sub-round gravel, no stain, no odor, fill |
| D | 3,252 | 0.6 | N | | | | SP-SM | 1'-3', SILTY SAND, dry, reddish brown, fine grained, poorly graded, no stain, no odor. |
| D | 5,062 | 0.3 | N | PH02 | 2 | 2 | TD | Total Depth at 2 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH03 | | Date: 08/24/22 | | | | |
|---|----------------|---------------------------------|--------------------|----------------|-----------------------|----------------|------------------|---|
| | | Site Name: PLU PC 17 SWD 1 | | | | | | |
| | | Incident Number: nAPP2216839215 | | | | | | |
| | | Job Number: 03E1558087 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.126024,-103.904228 | | | Logged By: CS/CW | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 2' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | >9,000 | 3.4 | N | SS03 | 0.2 | 0.2 | CCHE (fill) | 0-1', CALICHE, moist, tan-light brown, some small sub-round gravel, no stain, no odor, fill |
| D | 6,988 | 0.6 | N | | | 1 | SP-SM | 1'-3', SILTY SAND, dry, reddish brown, fine grained, poorly graded, no stain, no odor. |
| D | 9,520 | 0.3 | N | PH03 | 2 | 2 | TD | Total Depth at 2 feet bgs. |



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2660-1

Laboratory Sample Delivery Group: Eddy County
Client Project/Site: PLU Pierce Canyon

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

Authorized for release by:

8/4/2022 12:57:45 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU Pierce Canyon

Laboratory Job ID: 890-2660-1
SDG: Eddy County

Table of Contents

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| Receipt Checklists | 25 |

1

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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. |
|----------------|---|
| α | 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/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Job ID: 890-2660-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2660-1

Receipt

The samples were received on 7/27/2022 4:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-30990 and analytical batch 880-31051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2660-A-1-B MS). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31016 and analytical batch 880-31319 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 890-2660-1

Date Collected: 07/26/22 15:05

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 14:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 14:22 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U | 0.00403 | mg/Kg | | | 08/01/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 07/31/22 10:27 | 1 |

Method: 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 | | 07/29/22 10:59 | 07/30/22 20:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 F2 | 49.9 | mg/Kg | | 07/29/22 10:59 | 07/30/22 20:57 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/29/22 10:59 | 07/30/22 20:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83 | | 70 - 130 | 07/29/22 10:59 | 07/30/22 20:57 | 1 |
| o-Terphenyl | 109 | | 70 - 130 | 07/29/22 10:59 | 07/30/22 20:57 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 19000 | F1 | 249 | mg/Kg | | | 08/04/22 08:47 | 50 |

Client Sample ID: SS02

Lab Sample ID: 890-2660-2

Date Collected: 07/26/22 15:15

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 07/29/22 12:56 | 07/31/22 14:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 14:43 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 890-2660-2

Date Collected: 07/26/22 15:15

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 14:43 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/01/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 07/31/22 10:27 | 1 |

Method: 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 | | 07/29/22 10:59 | 07/30/22 22:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:02 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 97 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:02 | 1 |
| o-Terphenyl | 126 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:02 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 13600 | | 99.4 | mg/Kg | | | 08/04/22 09:10 | 20 |

Client Sample ID: SS03

Lab Sample ID: 890-2660-3

Date Collected: 07/26/22 15:25

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 15:03 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 15:03 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U | 0.00397 | mg/Kg | | | 08/01/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 152 | | 50.0 | mg/Kg | | | 07/31/22 10:27 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 890-2660-3

Date Collected: 07/26/22 15:25

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

Method: 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 | | 07/29/22 10:59 | 07/30/22 22:23 | 1 |
| Diesel Range Organics (Over C10-C28) | 94.4 | | 50.0 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:23 | 1 |
| Oil Range Organics (Over C28-C36) | 57.1 | | 50.0 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 71 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:23 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:23 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------|----------------|---------|
| Chloride | 36900 | | 252 | mg/Kg | | | 08/04/22 09:18 | 50 |

Client Sample ID: SS04

Lab Sample ID: 890-2660-4

Date Collected: 07/26/22 15:35

Matrix: Solid

Date Received: 07/27/22 16:41

Sample Depth: 0.2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 07/29/22 12:56 | 07/31/22 15:24 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | mg/Kg | | | 08/01/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 07/31/22 10:27 | 1 |

Method: 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 | | 07/29/22 10:59 | 07/30/22 22:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:45 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 07/29/22 10:59 | 07/30/22 22:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:45 | 1 |
| o-Terphenyl | 108 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 22:45 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 07/26/22 15:35
Date Received: 07/27/22 16:41
Sample Depth: 0.2

Lab Sample ID: 890-2660-4
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|-----|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 17700 | | 252 | mg/Kg | | | 08/04/22 09:26 | 50 | |

Surrogate Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-2660-1 | SS01 | 107 | 93 |
| 890-2660-2 | SS02 | 109 | 92 |
| 890-2660-3 | SS03 | 109 | 92 |
| 890-2660-4 | SS04 | 108 | 90 |
| 890-2666-A-3-D MS | Matrix Spike | 108 | 99 |
| 890-2666-A-3-E MSD | Matrix Spike Duplicate | 99 | 93 |
| 890-2674-A-2-D MS | Matrix Spike | 109 | 101 |
| 890-2674-A-2-E MSD | Matrix Spike Duplicate | 105 | 98 |
| LCS 880-31008/1-A | Lab Control Sample | 100 | 98 |
| LCS 880-31012/1-A | Lab Control Sample | 105 | 101 |
| LCSD 880-31008/2-A | Lab Control Sample Dup | 103 | 98 |
| LCSD 880-31012/2-A | Lab Control Sample Dup | 111 | 97 |
| MB 880-31008/5-A | Method Blank | 100 | 87 |
| MB 880-31012/5-A | Method Blank | 100 | 86 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-2660-1 | SS01 | 83 | 109 |
| 890-2660-1 MS | SS01 | 56 S1- | 64 S1- |
| 890-2660-1 MSD | SS01 | 73 | 81 |
| 890-2660-2 | SS02 | 97 | 126 |
| 890-2660-3 | SS03 | 71 | 87 |
| 890-2660-4 | SS04 | 89 | 108 |
| LCS 880-30990/2-A | Lab Control Sample | 86 | 86 |
| LCSD 880-30990/3-A | Lab Control Sample Dup | 84 | 84 |
| MB 880-30990/1-A | Method Blank | 108 | 128 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31008/5-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 12:56 | 07/31/22 12:18 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 12:18 | 1 |
| 1,4-Difluorobenzene (Surr) | 87 | | 70 - 130 | 07/29/22 12:56 | 07/31/22 12:18 | 1 |

Lab Sample ID: LCS 880-31008/1-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.08240 | | mg/Kg | | 82 | 70 - 130 |
| Toluene | 0.100 | 0.07858 | | mg/Kg | | 79 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.08153 | | mg/Kg | | 82 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1657 | | mg/Kg | | 83 | 70 - 130 |
| o-Xylene | 0.100 | 0.09065 | | mg/Kg | | 91 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

Lab Sample ID: LCSD 880-31008/2-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.1013 | | mg/Kg | | 101 | 70 - 130 | 21 | 35 |
| Toluene | 0.100 | 0.09750 | | mg/Kg | | 98 | 70 - 130 | 21 | 35 |
| Ethylbenzene | 0.100 | 0.1006 | | mg/Kg | | 101 | 70 - 130 | 21 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2029 | | mg/Kg | | 101 | 70 - 130 | 20 | 35 |
| o-Xylene | 0.100 | 0.1108 | | mg/Kg | | 111 | 70 - 130 | 20 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

Lab Sample ID: 890-2674-A-2-D MS

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00199 | U | 0.101 | 0.08255 | | mg/Kg | | 82 | 70 - 130 |
| Toluene | <0.00199 | U | 0.101 | 0.07891 | | mg/Kg | | 77 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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

Lab Sample ID: 890-2674-A-2-D MS

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.101 | 0.08077 | | mg/Kg | | 80 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.202 | 0.1639 | | mg/Kg | | 81 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.101 | 0.08914 | | mg/Kg | | 88 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: 890-2674-A-2-E MSD

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31008

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.0996 | 0.08499 | | mg/Kg | | 85 | 70 - 130 | 3 | 35 |
| Toluene | <0.00199 | U | 0.0996 | 0.08281 | | mg/Kg | | 82 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.08457 | | mg/Kg | | 85 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.1702 | | mg/Kg | | 85 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00199 | U | 0.0996 | 0.09264 | | mg/Kg | | 93 | 70 - 130 | 4 | 35 |

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

Lab Sample ID: MB 880-31012/5-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 07/29/22 13:33 | 07/31/22 22:55 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | 07/29/22 13:33 | 07/31/22 22:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | 07/29/22 13:33 | 07/31/22 22:55 | 1 |

Lab Sample ID: LCS 880-31012/1-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.09484 | | mg/Kg | | 95 | 70 - 130 |
| Toluene | 0.100 | 0.08991 | | mg/Kg | | 90 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09258 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1866 | | mg/Kg | | 93 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-31012/1-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100 | 0.09997 | | mg/Kg | | 100 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 880-31012/2-A

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.08621 | | mg/Kg | | 86 | 70 - 130 | 10 | 35 |
| Toluene | 0.100 | 0.08683 | | mg/Kg | | 87 | 70 - 130 | 3 | 35 |
| Ethylbenzene | 0.100 | 0.09088 | | mg/Kg | | 91 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1891 | | mg/Kg | | 95 | 70 - 130 | 1 | 35 |
| o-Xylene | 0.100 | 0.1128 | | mg/Kg | | 113 | 70 - 130 | 12 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

Lab Sample ID: 890-2666-A-3-D MS

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00198 | U | 0.101 | 0.1060 | | mg/Kg | | 105 | 70 - 130 |
| Toluene | 0.00327 | | 0.101 | 0.1008 | | mg/Kg | | 97 | 70 - 130 |
| Ethylbenzene | 0.00620 | | 0.101 | 0.1041 | | mg/Kg | | 97 | 70 - 130 |
| m-Xylene & p-Xylene | 0.0197 | | 0.202 | 0.2112 | | mg/Kg | | 95 | 70 - 130 |
| o-Xylene | 0.0128 | | 0.101 | 0.1210 | | mg/Kg | | 107 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Lab Sample ID: 890-2666-A-3-E MSD

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31012

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00198 | U | 0.100 | 0.08957 | | mg/Kg | | 89 | 70 - 130 | 17 | 35 |
| Toluene | 0.00327 | | 0.100 | 0.09161 | | mg/Kg | | 88 | 70 - 130 | 10 | 35 |
| Ethylbenzene | 0.00620 | | 0.100 | 0.09040 | | mg/Kg | | 84 | 70 - 130 | 14 | 35 |
| m-Xylene & p-Xylene | 0.0197 | | 0.200 | 0.1797 | | mg/Kg | | 80 | 70 - 130 | 16 | 35 |
| o-Xylene | 0.0128 | | 0.100 | 0.1015 | | mg/Kg | | 88 | 70 - 130 | 18 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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

Lab Sample ID: 890-2666-A-3-E MSD

Matrix: Solid

Analysis Batch: 31093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31012

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 |

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

Lab Sample ID: MB 880-30990/1-A

Matrix: Solid

Analysis Batch: 31051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30990

| | MB | MB | | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|-----|-----|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil | Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 07/29/22 10:59 | 07/30/22 19:52 | 1 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 07/29/22 10:59 | 07/30/22 19:52 | 1 | |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 07/29/22 10:59 | 07/30/22 19:52 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil | Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 19:52 | 1 | |
| o-Terphenyl | 128 | | 70 - 130 | | | 07/29/22 10:59 | 07/30/22 19:52 | 1 | |

Lab Sample ID: LCS 880-30990/2-A

Matrix: Solid

Analysis Batch: 31051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30990

| | Spike | LCS | LCS | | | | | %Rec | |
|--------------------------------------|-----------|-----------|-----------|-------|---|------|----------|------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1103 | | mg/Kg | | 110 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1110 | | mg/Kg | | 111 | 70 - 130 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 86 | | 70 - 130 | | | | | | |
| o-Terphenyl | 86 | | 70 - 130 | | | | | | |

Lab Sample ID: LCSD 880-30990/3-A

Matrix: Solid

Analysis Batch: 31051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30990

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|--------------------------------------|-----------|-----------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1059 | | mg/Kg | | 106 | 70 - 130 | 4 | 20 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1089 | | mg/Kg | | 109 | 70 - 130 | 2 | 20 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 84 | | 70 - 130 | | | | | | | |
| o-Terphenyl | 84 | | 70 - 130 | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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

Lab Sample ID: 890-2660-1 MS

Matrix: Solid

Analysis Batch: 31051

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 30990

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 725.8 | | mg/Kg | | 71 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 F2 | 999 | 556.4 | F1 | mg/Kg | | 52 | 70 - 130 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 56 | S1- | 70 - 130 | | | | | | |
| o-Terphenyl | 64 | S1- | 70 - 130 | | | | | | |

Lab Sample ID: 890-2660-1 MSD

Matrix: Solid

Analysis Batch: 31051

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 30990

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 811.6 | | mg/Kg | | 79 | 70 - 130 | 11 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 F2 | 999 | 710.0 | F1 F2 | mg/Kg | | 67 | 70 - 130 | 24 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 73 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 81 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31016/1-A

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 08/04/22 08:23 | 1 |

Lab Sample ID: LCS 880-31016/2-A

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 247.1 | | mg/Kg | | 99 | 90 - 110 |

Lab Sample ID: LCSD 880-31016/3-A

Matrix: Solid

Analysis Batch: 31319

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 | 247.0 | | mg/Kg | | 99 | 90 - 110 | 0 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2660-1 MS

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: SS01

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Chloride | 19000 | F1 | 12500 | 38060 | F1 | mg/Kg | | 153 | 90 - 110 | | |

Lab Sample ID: 890-2660-1 MSD

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: SS01

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 19000 | F1 | 12500 | 38010 | F1 | mg/Kg | | 153 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-2667-A-2-G MS

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|--|--|
| Chloride | 12.9 | | 251 | 266.4 | | mg/Kg | | 101 | 90 - 110 | | |

Lab Sample ID: 890-2667-A-2-H MSD

Matrix: Solid

Analysis Batch: 31319

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 12.9 | | 251 | 265.9 | | mg/Kg | | 101 | 90 - 110 | 0 | 20 |

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

GC VOA

Prep Batch: 31008

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | 5035 | |
| 890-2660-2 | SS02 | Total/NA | Solid | 5035 | |
| 890-2660-3 | SS03 | Total/NA | Solid | 5035 | |
| 890-2660-4 | SS04 | Total/NA | Solid | 5035 | |
| MB 880-31008/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-31008/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-31008/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2674-A-2-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2674-A-2-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 31012

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| MB 880-31012/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-31012/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-31012/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2666-A-3-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2666-A-3-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 31093

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | 8021B | 31008 |
| 890-2660-2 | SS02 | Total/NA | Solid | 8021B | 31008 |
| 890-2660-3 | SS03 | Total/NA | Solid | 8021B | 31008 |
| 890-2660-4 | SS04 | Total/NA | Solid | 8021B | 31008 |
| MB 880-31008/5-A | Method Blank | Total/NA | Solid | 8021B | 31008 |
| MB 880-31012/5-A | Method Blank | Total/NA | Solid | 8021B | 31012 |
| LCS 880-31008/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 31008 |
| LCS 880-31012/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 31012 |
| LCSD 880-31008/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 31008 |
| LCSD 880-31012/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 31012 |
| 890-2666-A-3-D MS | Matrix Spike | Total/NA | Solid | 8021B | 31012 |
| 890-2666-A-3-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 31012 |
| 890-2674-A-2-D MS | Matrix Spike | Total/NA | Solid | 8021B | 31008 |
| 890-2674-A-2-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 31008 |

Analysis Batch: 31171

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | Total BTEX | |
| 890-2660-2 | SS02 | Total/NA | Solid | Total BTEX | |
| 890-2660-3 | SS03 | Total/NA | Solid | Total BTEX | |
| 890-2660-4 | SS04 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 30990

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|-------------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2660-2 | SS02 | Total/NA | Solid | 8015NM Prep | |
| 890-2660-3 | SS03 | Total/NA | Solid | 8015NM Prep | |
| 890-2660-4 | SS04 | Total/NA | Solid | 8015NM Prep | |
| MB 880-30990/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 30990 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCS 880-30990/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-30990/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2660-1 MS | SS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2660-1 MSD | SS01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 31051

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | 8015B NM | 30990 |
| 890-2660-2 | SS02 | Total/NA | Solid | 8015B NM | 30990 |
| 890-2660-3 | SS03 | Total/NA | Solid | 8015B NM | 30990 |
| 890-2660-4 | SS04 | Total/NA | Solid | 8015B NM | 30990 |
| MB 880-30990/1-A | Method Blank | Total/NA | Solid | 8015B NM | 30990 |
| LCS 880-30990/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 30990 |
| LCSD 880-30990/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 30990 |
| 890-2660-1 MS | SS01 | Total/NA | Solid | 8015B NM | 30990 |
| 890-2660-1 MSD | SS01 | Total/NA | Solid | 8015B NM | 30990 |

Analysis Batch: 31108

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2660-1 | SS01 | Total/NA | Solid | 8015 NM | |
| 890-2660-2 | SS02 | Total/NA | Solid | 8015 NM | |
| 890-2660-3 | SS03 | Total/NA | Solid | 8015 NM | |
| 890-2660-4 | SS04 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 31016

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2660-1 | SS01 | Soluble | Solid | DI Leach | |
| 890-2660-2 | SS02 | Soluble | Solid | DI Leach | |
| 890-2660-3 | SS03 | Soluble | Solid | DI Leach | |
| 890-2660-4 | SS04 | Soluble | Solid | DI Leach | |
| MB 880-31016/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-31016/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-31016/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2660-1 MS | SS01 | Soluble | Solid | DI Leach | |
| 890-2660-1 MSD | SS01 | Soluble | Solid | DI Leach | |
| 890-2667-A-2-G MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-2667-A-2-H MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 31319

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2660-1 | SS01 | Soluble | Solid | 300.0 | 31016 |
| 890-2660-2 | SS02 | Soluble | Solid | 300.0 | 31016 |
| 890-2660-3 | SS03 | Soluble | Solid | 300.0 | 31016 |
| 890-2660-4 | SS04 | Soluble | Solid | 300.0 | 31016 |
| MB 880-31016/1-A | Method Blank | Soluble | Solid | 300.0 | 31016 |
| LCS 880-31016/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 31016 |
| LCSD 880-31016/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 31016 |
| 890-2660-1 MS | SS01 | Soluble | Solid | 300.0 | 31016 |
| 890-2660-1 MSD | SS01 | Soluble | Solid | 300.0 | 31016 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 31319 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2667-A-2-G MS | Matrix Spike | Soluble | Solid | 300.0 | 31016 |
| 890-2667-A-2-H MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 31016 |

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Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 890-2660-1

Date Collected: 07/26/22 15:05

Matrix: Solid

Date Received: 07/27/22 16:41

| 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 | 31008 | 07/29/22 12:56 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 31093 | 07/31/22 14:22 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 31171 | 08/01/22 10:24 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 31108 | 07/31/22 10:27 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 30990 | 07/29/22 10:59 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 31051 | 07/30/22 20:57 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 31016 | 07/29/22 14:03 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | | | 31319 | 08/04/22 08:47 | CH | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 890-2660-2

Date Collected: 07/26/22 15:15

Matrix: Solid

Date Received: 07/27/22 16:41

| 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 | 31008 | 07/29/22 12:56 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 31093 | 07/31/22 14:43 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 31171 | 08/01/22 10:24 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 31108 | 07/31/22 10:27 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 30990 | 07/29/22 10:59 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 31051 | 07/30/22 22:02 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 31016 | 07/29/22 14:03 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 31319 | 08/04/22 09:10 | CH | XEN MID |

Client Sample ID: SS03

Lab Sample ID: 890-2660-3

Date Collected: 07/26/22 15:25

Matrix: Solid

Date Received: 07/27/22 16:41

| 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 | 31008 | 07/29/22 12:56 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 31093 | 07/31/22 15:03 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 31171 | 08/01/22 10:24 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 31108 | 07/31/22 10:27 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 30990 | 07/29/22 10:59 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 31051 | 07/30/22 22:23 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 31016 | 07/29/22 14:03 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | | | 31319 | 08/04/22 09:18 | CH | XEN MID |

Client Sample ID: SS04

Lab Sample ID: 890-2660-4

Date Collected: 07/26/22 15:35

Matrix: Solid

Date Received: 07/27/22 16:41

| 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 | 31008 | 07/29/22 12:56 | EL | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 31093 | 07/31/22 15:24 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 31171 | 08/01/22 10:24 | SM | XEN MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 07/26/22 15:35
Date Received: 07/27/22 16:41

Lab Sample ID: 890-2660-4
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 | | | 31108 | 07/31/22 10:27 | AJ | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 30990 | 07/29/22 10:59 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 31051 | 07/30/22 22:45 | AJ | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 31016 | 07/29/22 14:03 | SMC | XEN MID |
| Soluble | Analysis | 300.0 | | 50 | | | 31319 | 08/04/22 09:26 | CH | XEN MID |

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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 | T104704400-22-24 | 06-30-23 |

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

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

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Method Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon

Job ID: 890-2660-1
SDG: Eddy County

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2660-1 | SS01 | Solid | 07/26/22 15:05 | 07/27/22 16:41 | 0.2 |
| 890-2660-2 | SS02 | Solid | 07/26/22 15:15 | 07/27/22 16:41 | 0.2 |
| 890-2660-3 | SS03 | Solid | 07/26/22 15:25 | 07/27/22 16:41 | 0.2 |
| 890-2660-4 | SS04 | Solid | 07/26/22 15:35 | 07/27/22 16:41 | 0.2 |

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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 _____ of _____

| | | | |
|------------------|---------------------|-------------------------|-----------------------------|
| Project Manager: | Tacoma Morrissey | Bill to: (if different) | Garrett Green |
| Company Name: | Ensochem | Company Name: | XTO Energy |
| Address: | 3122 National Parks | Address: | 3104 E Greene St |
| City, State ZIP: | Carlsbad NM 88220 | City, State ZIP: | |
| Phone: | 337-227-8031 | Email: | garrett.green@xenco-mob.com |

| | | | | | |
|--------------------------|------------------|---|---|------------|--|
| Project Name: | PLU Price Canyon | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 03E1558087 | Due Date: | | | |
| Project Location: | Eddy County | TAT starts the day received by the lab, if received by 4:30pm | | | |
| Sampler's Name: | CB | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| PO #: | | Thermometer ID: | N/A - 50F | | |
| SAMPLE RECEIPT | | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Samples Received Intact: | | Yes No | | | |
| Cooler Custody Seals: | | Yes No | | | |
| Sample Custody Seals: | | Yes No | | | |
| Total Containers: | | Corrected Temperature: | 1.0 | | |

| | | | | | | |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont |
| SS01 | S | 7-26 | 1505 | 2 | G | 1 |
| SS02 | S | | 1515 | 2 | G | 1 |
| SS03 | S | | 1520 | 2 | G | 1 |
| SS04 | S | | 1535 | 2 | G | 1 |

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

| | | | |
|------------------------------|--------------------------|------------------------------|--------------------------|
| Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
| <i>[Signature]</i> | <i>[Signature]</i> | | |
| 1 | 7-27-22 16:41 | | |
| 3 | | | |
| 5 | | | |

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2660-1

SDG Number: Eddy County

Login Number: 2660

List Number: 1

Creator: Clifton, Cloe

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. | 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 | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2660-1

SDG Number: Eddy County

Login Number: 2660

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/29/22 10:24 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 | |



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2843-1

Laboratory Sample Delivery Group: 03E1558087

Client Project/Site: PLU Pierce Canyon 17 SWD 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

Authorized for release by:

8/30/2022 11:53:26 AM

Jessica Kramer, Project Manager

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Laboratory Job ID: 890-2843-1
SDG: 03E1558087

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Qualifiers

GC VOA

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

GC Semi VOA

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

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. |
|----------------|---|
| α | 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/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Job ID: 890-2843-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2843-1

Receipt

The sample was received on 8/25/2022 8:39 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-33069 and analytical batch 880-33162 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (880-18562-A-1-B MS) and (880-18562-A-1-C MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33060 and analytical batch 880-33106 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Client Sample ID: PH01

Lab Sample ID: 890-2843-1

Date Collected: 08/24/22 10:05

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 08/27/22 14:13 | 08/29/22 17:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 17:31 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 17:31 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 08/29/22 10:11 | 1 |

Method: 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 | | 08/26/22 13:02 | 08/28/22 04:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:02 | 08/28/22 04:15 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:02 | 08/28/22 04:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 130 | 08/26/22 13:02 | 08/28/22 04:15 | 1 |
| o-Terphenyl | 82 | | 70 - 130 | 08/26/22 13:02 | 08/28/22 04:15 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 247 | | 4.97 | mg/Kg | | | 08/30/22 00:18 | 1 |

Eurofins Carlsbad

Surrogate Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-2842-A-1-E MS | Matrix Spike | 97 | 104 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | 91 | 100 |
| 890-2843-1 | PH01 | 87 | 109 |
| LCS 880-33069/1-A | Lab Control Sample | 95 | 101 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | 92 | 105 |
| MB 880-33069/5-A | Method Blank | 78 | 120 |
| 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) |
| 880-18562-A-1-B MS | Matrix Spike | 66 S1- | 59 S1- |
| 880-18562-A-1-C MSD | Matrix Spike Duplicate | 64 S1- | 58 S1- |
| 890-2843-1 | PH01 | 82 | 82 |
| LCS 880-33060/2-A | Lab Control Sample | 88 | 94 |
| LCSD 880-33060/3-A | Lab Control Sample Dup | 91 | 98 |
| MB 880-33060/1-A | Method Blank | 74 | 78 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33069/5-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

Lab Sample ID: LCS 880-33069/1-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.09832 | | mg/Kg | | 98 | 70 - 130 |
| Toluene | 0.100 | 0.1039 | | mg/Kg | | 104 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1038 | | mg/Kg | | 104 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1932 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | 0.100 | 0.1029 | | mg/Kg | | 103 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 880-33069/2-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.1050 | | mg/Kg | | 105 | 70 - 130 | 7 | 35 |
| Toluene | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1002 | | mg/Kg | | 100 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1844 | | mg/Kg | | 92 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.09694 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199 | U | 0.0998 | 0.07083 | | mg/Kg | | 71 | 70 - 130 |
| Toluene | <0.00199 | U | 0.0998 | 0.07660 | | mg/Kg | | 77 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

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

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.07257 | | mg/Kg | | 73 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.200 | 0.1321 | F1 | mg/Kg | | 66 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.07263 | | mg/Kg | | 73 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-F MSD

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.100 | 0.08963 | | mg/Kg | | 89 | 70 - 130 | 23 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09049 | | mg/Kg | | 90 | 70 - 130 | 17 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08761 | | mg/Kg | | 87 | 70 - 130 | 19 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.201 | 0.1610 | | mg/Kg | | 80 | 70 - 130 | 20 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08501 | | mg/Kg | | 85 | 70 - 130 | 16 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-33060/1-A

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33060

| 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 | | 08/26/22 13:02 | 08/27/22 20:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:02 | 08/27/22 20:36 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:02 | 08/27/22 20:36 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 74 | | 70 - 130 | 08/26/22 13:02 | 08/27/22 20:36 | 1 |
| o-Terphenyl | 78 | | 70 - 130 | 08/26/22 13:02 | 08/27/22 20:36 | 1 |

Lab Sample ID: LCS 880-33060/2-A

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33060

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 897.9 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 788.7 | | mg/Kg | | 79 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

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

Lab Sample ID: LCS 880-33060/2-A

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33060

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 94 | | 70 - 130 |

Lab Sample ID: LCSD 880-33060/3-A

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33060

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 922.5 | | mg/Kg | | 92 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 853.5 | | mg/Kg | | 85 | 70 - 130 | 8 | 20 |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 91 | | 70 - 130 |
| o-Terphenyl | 98 | | 70 - 130 |

Lab Sample ID: 880-18562-A-1-B MS

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33060

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 882.9 | | mg/Kg | | 87 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 999 | 609.4 | F1 | mg/Kg | | 61 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 66 | S1- | 70 - 130 |
| o-Terphenyl | 59 | S1- | 70 - 130 |

Lab Sample ID: 880-18562-A-1-C MSD

Matrix: Solid

Analysis Batch: 33106

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33060

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 899.3 | | mg/Kg | | 88 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 998 | 594.2 | F1 | mg/Kg | | 60 | 70 - 130 | 3 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 64 | S1- | 70 - 130 |
| o-Terphenyl | 58 | S1- | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33059/1-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 08/29/22 22:09 | 1 |

Lab Sample ID: LCS 880-33059/2-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 252.5 | | mg/Kg | | 101 | 90 - 110 |

Lab Sample ID: LCSD 880-33059/3-A

Matrix: Solid

Analysis Batch: 33244

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 | 258.6 | | mg/Kg | | 103 | 90 - 110 | 2 | 20 |

Lab Sample ID: 880-18518-A-1-B MS

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 26.4 | | 251 | 292.1 | | mg/Kg | | 106 | 90 - 110 |

Lab Sample ID: 880-18518-A-1-C MSD

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 26.4 | | 252 | 292.9 | | mg/Kg | | 106 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

GC VOA

Prep Batch: 33069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | 5035 | |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 33162

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | 8021B | 33069 |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 8021B | 33069 |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 33069 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 33069 |

Analysis Batch: 33328

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 33060

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-33060/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-33060/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-33060/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-18562-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-18562-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 33106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | 8015B NM | 33060 |
| MB 880-33060/1-A | Method Blank | Total/NA | Solid | 8015B NM | 33060 |
| LCS 880-33060/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 33060 |
| LCSD 880-33060/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 33060 |
| 880-18562-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 33060 |
| 880-18562-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 33060 |

Analysis Batch: 33179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2843-1 | PH01 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 33059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2843-1 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

HPLC/IC (Continued)

Leach Batch: 33059 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-18518-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-18518-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 33244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2843-1 | PH01 | Soluble | Solid | 300.0 | 33059 |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | 300.0 | 33059 |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 33059 |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 33059 |
| 880-18518-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 33059 |
| 880-18518-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 33059 |

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

Client Sample ID: PH01
Date Collected: 08/24/22 10:05
Date Received: 08/25/22 08:39

Lab Sample ID: 890-2843-1
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 | | | 4.97 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 17:31 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33328 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33179 | 08/29/22 10:11 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 33060 | 08/26/22 13:02 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33106 | 08/28/22 04:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 33244 | 08/30/22 00:18 | CH | 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 Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

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 | T104704400-22-24 | 06-30-23 |

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

| 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 | MCAWW | 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
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- 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 Pierce Canyon 17 SWD 1

Job ID: 890-2843-1
SDG: 03E1558087

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2843-1 | PH01 | Solid | 08/24/22 10:05 | 08/25/22 08:39 | 3 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 565-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|-------------------------|-------------------------|-----------------------------|
| Project Manager: | Ben Belli | Bill to: (if different) | Garret Green |
| Company Name: | Ensolium | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 3104 E. Green St. |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 303-887-2946 | Email: | Garret.Green@ExxonMobil.com |

| | |
|--|--|
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> | |
| State of Project: | |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> | Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |

| | | | | | | |
|----------------------------|--|---|---|-------|------------|-----------|
| Project Name: | PLU Pierce Canyon 17 SWD 1 | Turn Around | Due Date: | 2 Day | Pres. Code | |
| Project Number: | 03E1559087 | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | | | | |
| Project Location: | Comer Shore | TAT starts the day received by the lab, if received by 4:30pm | | | | |
| Sampler's Name: | | | | | | |
| PO #: | | | | | | |
| SAMPLE RECEIPT | Temp Blank: <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | Thermometer ID: | Wet Ice: <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | | | |
| Samples Received Intact: | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | Correction Factor: | N/A | | | |
| Cooler Custody Seals: | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | Temperature Reading: | -0.2 | | | |
| Sample Custody Seals: | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No | Corrected Temperature: | 4.0 | | | |
| Total Containers: | | | | | | |
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont |
| PH01 | S | 08.24.22 | 1005 | 3' | G | 1 |
| Parameters | | | | | | |
| CHLORIDES (EPA: 300.0) | | | | | | |
| TPH (8015) | | | | | | |
| BTEX (8021) | | | | | | |
| ANALYSIS REQUEST | | | | | | |
| Preservative Codes | | | | | | |
| None: NO DI Water: H2O | | | | | | |
| Cool: Cool MeOH: Me | | | | | | |
| HCL: HCl HNO3: HN | | | | | | |
| H2SO4: H2 NaOH: Na | | | | | | |
| H3PO4: HP | | | | | | |
| NaHSO4: NABIS | | | | | | |
| Na2S2O3: NaSO3 | | | | | | |
| Zn Acetate+NaOH: Zn | | | | | | |
| NaOH+Ascorbic Acid: SAPC | | | | | | |
| Sample Comments | | | | | | |
| Incident ID: 011P221639215 | | | | | | |
| Cost Center: 1090741001 | | | | | | |
| AFE: _____ | | | | | | |

| | | | | |
|---|--------------------------|--|------------------------------|---|
| 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 SiO2 Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | | TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | | Hg: 1631 / 245.1 / 7470 / 7471 |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) |
| 1 <i>Carlsbad</i> | <i>Garret Green</i> | 8.25.22 8:39 | 4 | |
| 3 | | | | |
| 5 | | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2843-1

SDG Number: 03E1558087

Login Number: 2843

List Number: 1

Creator: Clifton, Cloe

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. | 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 | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2843-1

SDG Number: 03E1558087

Login Number: 2843

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 08/26/22 11:03 AM

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2846-1

Laboratory Sample Delivery Group: 03E1558087

Client Project/Site: PLU Pierce Canyon 17 SWD 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

Authorized for release by:

8/30/2022 11:54:22 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Laboratory Job ID: 890-2846-1
SDG: 03E1558087

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Job ID: 890-2846-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2846-1

Receipt

The samples were received on 8/25/2022 8:39 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

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-33069 and analytical batch 880-33162 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33059 and analytical batch 880-33244 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS05

Lab Sample ID: 890-2846-1

Date Collected: 08/24/22 13:10

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:05 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/26/22 22:36 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 22:36 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 22:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 22:36 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 22:36 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 522 | F1 | 24.8 | mg/Kg | | | 08/30/22 00:46 | 5 |

Client Sample ID: SS06

Lab Sample ID: 890-2846-2

Date Collected: 08/24/22 13:20

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:25 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS06

Lab Sample ID: 890-2846-2

Date Collected: 08/24/22 13:20

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:25 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/26/22 22:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 22:56 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 22:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 90 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 22:56 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 22:56 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 282 | | 5.04 | mg/Kg | | | 08/30/22 01:13 | 1 |

Client Sample ID: SS07

Lab Sample ID: 890-2846-3

Date Collected: 08/24/22 13:25

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 22:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 22:45 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 08/29/22 10:06 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS07

Lab Sample ID: 890-2846-3

Date Collected: 08/24/22 13:25

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

Method: 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 | | 08/26/22 13:06 | 08/26/22 23:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:17 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 23:17 | 1 |
| o-Terphenyl | 100 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 23:17 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 387 | | 5.05 | mg/Kg | | | 08/30/22 01:23 | 1 |

Client Sample ID: SS08

Lab Sample ID: 890-2846-4

Date Collected: 08/24/22 13:30

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 08/27/22 14:13 | 08/29/22 23:06 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/26/22 23:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 77 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 23:37 | 1 |
| o-Terphenyl | 83 | | 70 - 130 | | | 08/26/22 13:06 | 08/26/22 23:37 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS08
Date Collected: 08/24/22 13:30
Date Received: 08/25/22 08:39
Sample Depth: 0.5

Lab Sample ID: 890-2846-4
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 467 | | 5.05 | mg/Kg | | | 08/30/22 01:50 | 1 | |

Surrogate Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-2842-A-1-E MS | Matrix Spike | 97 | 104 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | 91 | 100 |
| 890-2846-1 | SS05 | 91 | 112 |
| 890-2846-2 | SS06 | 97 | 110 |
| 890-2846-3 | SS07 | 95 | 107 |
| 890-2846-4 | SS08 | 97 | 104 |
| LCS 880-33069/1-A | Lab Control Sample | 95 | 101 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | 92 | 105 |
| MB 880-33069/5-A | Method Blank | 78 | 120 |
| Surrogate Legend | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | |

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-2842-A-1-C MS | Matrix Spike | 81 | 78 |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | 88 | 82 |
| 890-2846-1 | SS05 | 94 | 105 |
| 890-2846-2 | SS06 | 90 | 97 |
| 890-2846-3 | SS07 | 91 | 100 |
| 890-2846-4 | SS08 | 77 | 83 |
| LCS 880-33061/2-A | Lab Control Sample | 93 | 106 |
| LCSD 880-33061/3-A | Lab Control Sample Dup | 92 | 103 |
| MB 880-33061/1-A | Method Blank | 80 | 94 |
| Surrogate Legend | | | |
| 1CO = 1-Chlorooctane | | | |
| OTPH = o-Terphenyl | | | |

QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33069/5-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

Lab Sample ID: LCS 880-33069/1-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.09832 | | mg/Kg | | 98 | 70 - 130 |
| Toluene | 0.100 | 0.1039 | | mg/Kg | | 104 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1038 | | mg/Kg | | 104 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1932 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | 0.100 | 0.1029 | | mg/Kg | | 103 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 880-33069/2-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.1050 | | mg/Kg | | 105 | 70 - 130 | 7 | 35 |
| Toluene | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1002 | | mg/Kg | | 100 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1844 | | mg/Kg | | 92 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.09694 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00199 | U | 0.0998 | 0.07083 | | mg/Kg | | 71 | 70 - 130 |
| Toluene | <0.00199 | U | 0.0998 | 0.07660 | | mg/Kg | | 77 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

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

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.07257 | | mg/Kg | | 73 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.200 | 0.1321 | F1 | mg/Kg | | 66 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.07263 | | mg/Kg | | 73 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-F MSD

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.100 | 0.08963 | | mg/Kg | | 89 | 70 - 130 | 23 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09049 | | mg/Kg | | 90 | 70 - 130 | 17 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08761 | | mg/Kg | | 87 | 70 - 130 | 19 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.201 | 0.1610 | | mg/Kg | | 80 | 70 - 130 | 20 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08501 | | mg/Kg | | 85 | 70 - 130 | 16 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-33061/1-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33061

| 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 | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 20:32 | 1 |

Lab Sample ID: LCS 880-33061/2-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 896.9 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 884.2 | | mg/Kg | | 88 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

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

Lab Sample ID: LCS 880-33061/2-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33061

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-33061/3-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 921.3 | | mg/Kg | | 92 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 899.8 | | mg/Kg | | 90 | 70 - 130 | 2 | 20 |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 92 | | 70 - 130 |
| o-Terphenyl | 103 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-C MS

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 811.4 | | mg/Kg | | 81 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 733.7 | | mg/Kg | | 73 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 81 | | 70 - 130 |
| o-Terphenyl | 78 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-D MSD

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 875.8 | | mg/Kg | | 88 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 805.7 | | mg/Kg | | 81 | 70 - 130 | 9 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33059/1-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 08/29/22 22:09 | 1 |

Lab Sample ID: LCS 880-33059/2-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 252.5 | | mg/Kg | | 101 | 90 - 110 |

Lab Sample ID: LCSD 880-33059/3-A

Matrix: Solid

Analysis Batch: 33244

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 | 258.6 | | mg/Kg | | 103 | 90 - 110 | 2 | 20 |

Lab Sample ID: 890-2846-1 MS

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: SS05

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 522 | F1 | 1240 | 1902 | F1 | mg/Kg | | 111 | 90 - 110 |

Lab Sample ID: 890-2846-1 MSD

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: SS05

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 522 | F1 | 1240 | 1902 | F1 | mg/Kg | | 111 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

GC VOA

Prep Batch: 33069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | 5035 | |
| 890-2846-2 | SS06 | Total/NA | Solid | 5035 | |
| 890-2846-3 | SS07 | Total/NA | Solid | 5035 | |
| 890-2846-4 | SS08 | Total/NA | Solid | 5035 | |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 33162

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | 8021B | 33069 |
| 890-2846-2 | SS06 | Total/NA | Solid | 8021B | 33069 |
| 890-2846-3 | SS07 | Total/NA | Solid | 8021B | 33069 |
| 890-2846-4 | SS08 | Total/NA | Solid | 8021B | 33069 |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 8021B | 33069 |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 33069 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 33069 |

Analysis Batch: 33332

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | Total BTEX | |
| 890-2846-2 | SS06 | Total/NA | Solid | Total BTEX | |
| 890-2846-3 | SS07 | Total/NA | Solid | Total BTEX | |
| 890-2846-4 | SS08 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 33016

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2846-2 | SS06 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2846-3 | SS07 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2846-4 | SS08 | Total/NA | Solid | 8015B NM | 33061 |
| MB 880-33061/1-A | Method Blank | Total/NA | Solid | 8015B NM | 33061 |
| LCS 880-33061/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 33061 |
| LCSD 880-33061/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 33061 |
| 890-2842-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 33061 |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 33061 |

Prep Batch: 33061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | 8015NM Prep | |
| 890-2846-2 | SS06 | Total/NA | Solid | 8015NM Prep | |
| 890-2846-3 | SS07 | Total/NA | Solid | 8015NM Prep | |
| 890-2846-4 | SS08 | Total/NA | Solid | 8015NM Prep | |
| MB 880-33061/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-33061/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

GC Semi VOA (Continued)

Prep Batch: 33061 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-33061/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2842-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 33174

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2846-1 | SS05 | Total/NA | Solid | 8015 NM | |
| 890-2846-2 | SS06 | Total/NA | Solid | 8015 NM | |
| 890-2846-3 | SS07 | Total/NA | Solid | 8015 NM | |
| 890-2846-4 | SS08 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 33059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2846-1 | SS05 | Soluble | Solid | DI Leach | |
| 890-2846-2 | SS06 | Soluble | Solid | DI Leach | |
| 890-2846-3 | SS07 | Soluble | Solid | DI Leach | |
| 890-2846-4 | SS08 | Soluble | Solid | DI Leach | |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2846-1 MS | SS05 | Soluble | Solid | DI Leach | |
| 890-2846-1 MSD | SS05 | Soluble | Solid | DI Leach | |

Analysis Batch: 33244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2846-1 | SS05 | Soluble | Solid | 300.0 | 33059 |
| 890-2846-2 | SS06 | Soluble | Solid | 300.0 | 33059 |
| 890-2846-3 | SS07 | Soluble | Solid | 300.0 | 33059 |
| 890-2846-4 | SS08 | Soluble | Solid | 300.0 | 33059 |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | 300.0 | 33059 |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 33059 |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 33059 |
| 890-2846-1 MS | SS05 | Soluble | Solid | 300.0 | 33059 |
| 890-2846-1 MSD | SS05 | Soluble | Solid | 300.0 | 33059 |

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS05**Lab Sample ID: 890-2846-1****Date Collected: 08/24/22 13:10****Matrix: Solid****Date Received: 08/25/22 08:39**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 22:05 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33332 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33174 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/26/22 22:36 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 33244 | 08/30/22 00:46 | CH | EET MID |

Client Sample ID: SS06**Lab Sample ID: 890-2846-2****Date Collected: 08/24/22 13:20****Matrix: Solid****Date Received: 08/25/22 08:39**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 22:25 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33332 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33174 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/26/22 22:56 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 33244 | 08/30/22 01:13 | CH | EET MID |

Client Sample ID: SS07**Lab Sample ID: 890-2846-3****Date Collected: 08/24/22 13:25****Matrix: Solid****Date Received: 08/25/22 08:39**

| 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 | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 22:45 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33332 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33174 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/26/22 23:17 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 33244 | 08/30/22 01:23 | CH | EET MID |

Client Sample ID: SS08**Lab Sample ID: 890-2846-4****Date Collected: 08/24/22 13:30****Matrix: Solid****Date Received: 08/25/22 08:39**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 23:06 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33332 | 08/30/22 10:24 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

Client Sample ID: SS08
Date Collected: 08/24/22 13:30
Date Received: 08/25/22 08:39

Lab Sample ID: 890-2846-4
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 | | | 33174 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/26/22 23:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 33244 | 08/30/22 01:50 | CH | 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 Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

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 | T104704400-22-24 | 06-30-23 |

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: PLU Pierce Canyon 17 SWD 1

Job ID: 890-2846-1
SDG: 03E1558087

| 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 | MCAWW | 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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Job ID: 890-2846-1

Project/Site: PLU Pierce Canyon 17 SWD 1

SDG: 03E1558087

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2846-1 | SS05 | Solid | 08/24/22 13:10 | 08/25/22 08:39 | 0.5 |
| 890-2846-2 | SS06 | Solid | 08/24/22 13:20 | 08/25/22 08:39 | 0.5 |
| 890-2846-3 | SS07 | Solid | 08/24/22 13:25 | 08/25/22 08:39 | 0.5 |
| 890-2846-4 | SS08 | Solid | 08/24/22 13:30 | 08/25/22 08:39 | 0.5 |



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|-------------------------|-------------------------|-----------------------------|
| Project Manager: | Ben Beill | Bill to: (if different) | Garret Green |
| Company Name: | Ensolium | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 3104 E. Green St. |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 303-887-2946 | Email: | Garret.Green@ExxonMobil.com |

| | |
|--|--|
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> | |
| State of Project: | |
| Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> | Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ |

| | | | | | |
|---------------|----------------------------|-------------|------------|------------------|--------------------|
| Project Name: | PLU Pierce Canyon 17 SWD 1 | Turn Around | Pres. Code | ANALYSIS REQUEST | Preservative Codes |
|---------------|----------------------------|-------------|------------|------------------|--------------------|

| | | | | | |
|-----------------|------------|---|--|--|-------------------------------------|
| Project Number: | 03E1558087 | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | | | None: NO DI Water: H ₂ O |
|-----------------|------------|---|--|--|-------------------------------------|

| | | | | | |
|-------------------|--------------|-----------|-------|--|---------------------|
| Project Location: | Commer Shore | Due Date: | 2 Day | | Cool: Cool MeOH: Me |
|-------------------|--------------|-----------|-------|--|---------------------|

| | | | | | |
|-----------------|--|---|--|--|--|
| Sampler's Name: | | TAT starts the day received by the lab, if received by 4:30pm | | | |
|-----------------|--|---|--|--|--|

| | | | | | |
|-------|--|-------------|--------|-----------|--------|
| PO #: | | Temp Blank: | Yes No | Well Ice: | Yes No |
|-------|--|-------------|--------|-----------|--------|

| | | | | | |
|----------------|--------|-----------------|--------|--|-------------------------------------|
| SAMPLE RECEIPT | Yes No | Thermometer ID: | NM-007 | | H ₃ PO ₄ : HP |
|----------------|--------|-----------------|--------|--|-------------------------------------|

| | | | | | |
|--------------------------|--------|--------------------|------|--|----------------------------|
| Samples Received Intact: | Yes No | Correction Factor: | -0.2 | | NaHSO ₄ : NABIS |
|--------------------------|--------|--------------------|------|--|----------------------------|

| | | | | | |
|-----------------------|--------|----------------------|-----|--|---|
| Cooler Custody Seals: | Yes No | Temperature Reading: | 4.2 | | Na ₂ S ₂ O ₃ : NaSO ₃ |
|-----------------------|--------|----------------------|-----|--|---|

| | | | | | |
|-----------------------|--------|------------------------|-----|--|---------------------|
| Sample Custody Seals: | Yes No | Corrected Temperature: | 4.0 | | Zn Acetate+NaOH: Zn |
|-----------------------|--------|------------------------|-----|--|---------------------|

| | | | | | |
|-------------------|--|--|--|--|--------------------------|
| Total Containers: | | | | | NaOH+Ascorbic Acid: SAPC |
|-------------------|--|--|--|--|--------------------------|

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021) | ANALYSIS REQUEST | Preservative Codes | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------------------|------------|-------------|------------------|--------------------|----------------------------|
| SS05 | S | 08.24.22 | 1310 | 0.5' | G | 1 | X | X | X | | | Incident ID: 0AF2216839215 |
| SS06 | S | 08.24.22 | 1320 | 0.5' | G | 2 | X | X | X | | | Cost Center: 1090741001 |
| SS07 | S | 08.24.22 | 1325 | 0.5' | G | 3 | X | X | X | | | AFE: |
| SS08 | S | 08.24.22 | 1330 | 0.5' | G | 4 | X | X | X | | | |

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

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

| | | | | | |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| | | 8.25.22 8:29 | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2846-1

SDG Number: 03E1558087

Login Number: 2846

List Number: 1

Creator: Clifton, Cloe

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. | 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 | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2846-1

SDG Number: 03E1558087

Login Number: 2846

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 08/26/22 11:03 AM

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



Environment Testing
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2847-1

Laboratory Sample Delivery Group: 03E1558087

Client Project/Site: PLU PIERCE CANYON 17 SWD 1

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

Authorized for release by:

8/30/2022 11:54:50 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Laboratory Job ID: 890-2847-1
SDG: 03E1558087

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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. |
|----------------|---|
| α | 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/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Job ID: 890-2847-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2847-1

Receipt

The samples were received on 8/25/2022 8:39 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

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-33069 and analytical batch 880-33162 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH02 (890-2847-2). 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.

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33059 and analytical batch 880-33244 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: PH01

Lab Sample ID: 890-2847-1

Date Collected: 08/24/22 10:00

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 23:26 | 1 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 23:26 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/26/22 23:58 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:58 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/26/22 23:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 76 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 23:58 | 1 |
| o-Terphenyl | 82 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 23:58 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1640 | | 25.1 | mg/Kg | | | 08/30/22 02:00 | 5 |

Client Sample ID: PH02

Lab Sample ID: 890-2847-2

Date Collected: 08/24/22 10:50

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/29/22 23:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 23:47 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: PH02

Lab Sample ID: 890-2847-2

Date Collected: 08/24/22 10:50

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 2

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 136 | S1+ | 70 - 130 | 08/27/22 14:13 | 08/29/22 23:47 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/27/22 00:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/27/22 00:18 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/27/22 00:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 78 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 00:18 | 1 |
| o-Terphenyl | 84 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 00:18 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3080 | | 24.9 | mg/Kg | | | 08/30/22 02:09 | 5 |

Client Sample ID: PH03

Lab Sample ID: 890-2847-3

Date Collected: 08/24/22 12:05

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | 08/27/22 14:13 | 08/30/22 00:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 08/27/22 14:13 | 08/30/22 00:07 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 08/29/22 10:06 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: PH03

Lab Sample ID: 890-2847-3

Date Collected: 08/24/22 12:05

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 2

Method: 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 | | 08/26/22 13:06 | 08/27/22 00:39 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 08/26/22 13:06 | 08/27/22 00:39 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 08/26/22 13:06 | 08/27/22 00:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 95 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 00:39 | 1 |
| o-Terphenyl | 104 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 00:39 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 9770 | | 99.6 | mg/Kg | | | 08/30/22 02:18 | 20 |

Client Sample ID: FS01

Lab Sample ID: 890-2847-4

Date Collected: 08/24/22 13:00

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | 08/27/22 14:13 | 08/30/22 00:28 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/27/22 01:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/27/22 01:00 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/27/22 01:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 83 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 01:00 | 1 |
| o-Terphenyl | 91 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 01:00 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: FS01

Lab Sample ID: 890-2847-4

Date Collected: 08/24/22 13:00

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2730 | | 25.2 | mg/Kg | | | 08/30/22 02:27 | 5 |

Client Sample ID: FS02

Lab Sample ID: 890-2847-5

Date Collected: 08/24/22 13:05

Matrix: Solid

Date Received: 08/25/22 08:39

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | | | 08/27/22 14:13 | 08/30/22 00:48 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 08/30/22 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 08/29/22 10:06 | 1 |

Method: 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 | | 08/26/22 13:06 | 08/27/22 01:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/27/22 01:21 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 08/26/22 13:06 | 08/27/22 01:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 76 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 01:21 | 1 |
| o-Terphenyl | 82 | | 70 - 130 | | | 08/26/22 13:06 | 08/27/22 01:21 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 5180 | | 50.3 | mg/Kg | | | 08/30/22 02:36 | 10 |

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Surrogate Summary

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
|--------------------|------------------------|------------------|-------------------|
| 890-2842-A-1-E MS | Matrix Spike | 97 | 104 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | 91 | 100 |
| 890-2847-1 | PH01 | 93 | 106 |
| 890-2847-2 | PH02 | 96 | 136 S1+ |
| 890-2847-3 | PH03 | 84 | 102 |
| 890-2847-4 | FS01 | 96 | 103 |
| 890-2847-5 | FS02 | 98 | 104 |
| LCS 880-33069/1-A | Lab Control Sample | 95 | 101 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | 92 | 105 |
| MB 880-33069/5-A | Method Blank | 78 | 120 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
|--------------------|------------------------|------------------|-------------------|
| 890-2842-A-1-C MS | Matrix Spike | 81 | 78 |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | 88 | 82 |
| 890-2847-1 | PH01 | 76 | 82 |
| 890-2847-2 | PH02 | 78 | 84 |
| 890-2847-3 | PH03 | 95 | 104 |
| 890-2847-4 | FS01 | 83 | 91 |
| 890-2847-5 | FS02 | 76 | 82 |
| LCS 880-33061/2-A | Lab Control Sample | 93 | 106 |
| LCSD 880-33061/3-A | Lab Control Sample Dup | 92 | 103 |
| MB 880-33061/1-A | Method Blank | 80 | 94 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33069/5-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 120 | | 70 - 130 | 08/27/22 14:13 | 08/29/22 16:12 | 1 |

Lab Sample ID: LCS 880-33069/1-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.09832 | | mg/Kg | | 98 | 70 - 130 |
| Toluene | 0.100 | 0.1039 | | mg/Kg | | 104 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1038 | | mg/Kg | | 104 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1932 | | mg/Kg | | 97 | 70 - 130 |
| o-Xylene | 0.100 | 0.1029 | | mg/Kg | | 103 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 880-33069/2-A

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.1050 | | mg/Kg | | 105 | 70 - 130 | 7 | 35 |
| Toluene | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1002 | | mg/Kg | | 100 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1844 | | mg/Kg | | 92 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.09694 | | mg/Kg | | 97 | 70 - 130 | 6 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00199 | U | 0.0998 | 0.07083 | | mg/Kg | | 71 | 70 - 130 |
| Toluene | <0.00199 | U | 0.0998 | 0.07660 | | mg/Kg | | 77 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

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

Lab Sample ID: 890-2842-A-1-E MS

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.0998 | 0.07257 | | mg/Kg | | 73 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.200 | 0.1321 | F1 | mg/Kg | | 66 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.0998 | 0.07263 | | mg/Kg | | 73 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-F MSD

Matrix: Solid

Analysis Batch: 33162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33069

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.100 | 0.08963 | | mg/Kg | | 89 | 70 - 130 | 23 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09049 | | mg/Kg | | 90 | 70 - 130 | 17 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.08761 | | mg/Kg | | 87 | 70 - 130 | 19 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.201 | 0.1610 | | mg/Kg | | 80 | 70 - 130 | 20 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.08501 | | mg/Kg | | 85 | 70 - 130 | 16 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 |

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

Lab Sample ID: MB 880-33061/1-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33061

| 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 | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 08/26/22 13:06 | 08/26/22 20:32 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 20:32 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | 08/26/22 13:06 | 08/26/22 20:32 | 1 |

Lab Sample ID: LCS 880-33061/2-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 896.9 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 884.2 | | mg/Kg | | 88 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

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

Lab Sample ID: LCS 880-33061/2-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33061

| | LCS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-33061/3-A

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 921.3 | | mg/Kg | | 92 | 70 - 130 | 3 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 899.8 | | mg/Kg | | 90 | 70 - 130 | 2 | 20 |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 92 | | 70 - 130 |
| o-Terphenyl | 103 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-C MS

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 999 | 811.4 | | mg/Kg | | 81 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 999 | 733.7 | | mg/Kg | | 73 | 70 - 130 |

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 81 | | 70 - 130 |
| o-Terphenyl | 78 | | 70 - 130 |

Lab Sample ID: 890-2842-A-1-D MSD

Matrix: Solid

Analysis Batch: 33016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 33061

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 998 | 875.8 | | mg/Kg | | 88 | 70 - 130 | 8 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 998 | 805.7 | | mg/Kg | | 81 | 70 - 130 | 9 | 20 |

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 88 | | 70 - 130 |
| o-Terphenyl | 82 | | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-33059/1-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 08/29/22 22:09 | 1 |

Lab Sample ID: LCS 880-33059/2-A

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250 | 252.5 | | mg/Kg | | 101 | 90 - 110 |

Lab Sample ID: LCSD 880-33059/3-A

Matrix: Solid

Analysis Batch: 33244

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 | 258.6 | | mg/Kg | | 103 | 90 - 110 | 2 | 20 |

Lab Sample ID: 890-2846-A-1-B MS

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 522 | F1 | 1240 | 1902 | F1 | mg/Kg | | 111 | 90 - 110 |

Lab Sample ID: 890-2846-A-1-C MSD

Matrix: Solid

Analysis Batch: 33244

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 522 | F1 | 1240 | 1902 | F1 | mg/Kg | | 111 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

GC VOA

Prep Batch: 33069

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | 5035 | |
| 890-2847-2 | PH02 | Total/NA | Solid | 5035 | |
| 890-2847-3 | PH03 | Total/NA | Solid | 5035 | |
| 890-2847-4 | FS01 | Total/NA | Solid | 5035 | |
| 890-2847-5 | FS02 | Total/NA | Solid | 5035 | |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 33162

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | 8021B | 33069 |
| 890-2847-2 | PH02 | Total/NA | Solid | 8021B | 33069 |
| 890-2847-3 | PH03 | Total/NA | Solid | 8021B | 33069 |
| 890-2847-4 | FS01 | Total/NA | Solid | 8021B | 33069 |
| 890-2847-5 | FS02 | Total/NA | Solid | 8021B | 33069 |
| MB 880-33069/5-A | Method Blank | Total/NA | Solid | 8021B | 33069 |
| LCS 880-33069/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 33069 |
| LCSD 880-33069/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 33069 |
| 890-2842-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 33069 |

Analysis Batch: 33333

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-2847-2 | PH02 | Total/NA | Solid | Total BTEX | |
| 890-2847-3 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-2847-4 | FS01 | Total/NA | Solid | Total BTEX | |
| 890-2847-5 | FS02 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 33016

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2847-2 | PH02 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2847-3 | PH03 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2847-4 | FS01 | Total/NA | Solid | 8015B NM | 33061 |
| 890-2847-5 | FS02 | Total/NA | Solid | 8015B NM | 33061 |
| MB 880-33061/1-A | Method Blank | Total/NA | Solid | 8015B NM | 33061 |
| LCS 880-33061/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 33061 |
| LCSD 880-33061/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 33061 |
| 890-2842-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 33061 |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 33061 |

Prep Batch: 33061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-2847-2 | PH02 | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

GC Semi VOA (Continued)

Prep Batch: 33061 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2847-3 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-2847-4 | FS01 | Total/NA | Solid | 8015NM Prep | |
| 890-2847-5 | FS02 | Total/NA | Solid | 8015NM Prep | |
| MB 880-33061/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-33061/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-33061/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2842-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-2842-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 33175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2847-1 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-2847-2 | PH02 | Total/NA | Solid | 8015 NM | |
| 890-2847-3 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-2847-4 | FS01 | Total/NA | Solid | 8015 NM | |
| 890-2847-5 | FS02 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 33059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2847-1 | PH01 | Soluble | Solid | DI Leach | |
| 890-2847-2 | PH02 | Soluble | Solid | DI Leach | |
| 890-2847-3 | PH03 | Soluble | Solid | DI Leach | |
| 890-2847-4 | FS01 | Soluble | Solid | DI Leach | |
| 890-2847-5 | FS02 | Soluble | Solid | DI Leach | |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2846-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-2846-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 33244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2847-1 | PH01 | Soluble | Solid | 300.0 | 33059 |
| 890-2847-2 | PH02 | Soluble | Solid | 300.0 | 33059 |
| 890-2847-3 | PH03 | Soluble | Solid | 300.0 | 33059 |
| 890-2847-4 | FS01 | Soluble | Solid | 300.0 | 33059 |
| 890-2847-5 | FS02 | Soluble | Solid | 300.0 | 33059 |
| MB 880-33059/1-A | Method Blank | Soluble | Solid | 300.0 | 33059 |
| LCS 880-33059/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 33059 |
| LCSD 880-33059/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 33059 |
| 890-2846-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 33059 |
| 890-2846-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 33059 |

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: PH01

Lab Sample ID: 890-2847-1

Date Collected: 08/24/22 10:00

Matrix: Solid

Date Received: 08/25/22 08:39

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 23:26 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33333 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33175 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/26/22 23:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 33244 | 08/30/22 02:00 | CH | EET MID |

Client Sample ID: PH02

Lab Sample ID: 890-2847-2

Date Collected: 08/24/22 10:50

Matrix: Solid

Date Received: 08/25/22 08:39

| 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 | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/29/22 23:47 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33333 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33175 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/27/22 00:18 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 33244 | 08/30/22 02:09 | CH | EET MID |

Client Sample ID: PH03

Lab Sample ID: 890-2847-3

Date Collected: 08/24/22 12:05

Matrix: Solid

Date Received: 08/25/22 08:39

| 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 | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/30/22 00:07 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33333 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33175 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/27/22 00:39 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 33244 | 08/30/22 02:18 | CH | EET MID |

Client Sample ID: FS01

Lab Sample ID: 890-2847-4

Date Collected: 08/24/22 13:00

Matrix: Solid

Date Received: 08/25/22 08:39

| 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 | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/30/22 00:28 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33333 | 08/30/22 10:24 | SM | EET MID |

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

Client Sample ID: FS01

Date Collected: 08/24/22 13:00

Date Received: 08/25/22 08:39

Lab Sample ID: 890-2847-4

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 | | | 33175 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/27/22 01:00 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 33244 | 08/30/22 02:27 | CH | EET MID |

Client Sample ID: FS02

Date Collected: 08/24/22 13:05

Date Received: 08/25/22 08:39

Lab Sample ID: 890-2847-5

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 | | | 5.01 g | 5 mL | 33069 | 08/27/22 14:13 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 33162 | 08/30/22 00:48 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 33333 | 08/30/22 10:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 33175 | 08/29/22 10:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 33061 | 08/26/22 13:06 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 33016 | 08/27/22 01:21 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 33059 | 08/26/22 12:53 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 10 | 50 mL | 50 mL | 33244 | 08/30/22 02:36 | CH | 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 PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

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 | T104704400-22-24 | 06-30-23 |

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

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

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Method Summary

Client: Ensolum

Job ID: 890-2847-1

Project/Site: PLU PIERCE CANYON 17 SWD 1

SDG: 03E1558087

| 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 | MCAWW | 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

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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 PIERCE CANYON 17 SWD 1

Job ID: 890-2847-1
SDG: 03E1558087

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2847-1 | PH01 | Solid | 08/24/22 10:00 | 08/25/22 08:39 | 2 |
| 890-2847-2 | PH02 | Solid | 08/24/22 10:50 | 08/25/22 08:39 | 2 |
| 890-2847-3 | PH03 | Solid | 08/24/22 12:05 | 08/25/22 08:39 | 2 |
| 890-2847-4 | FS01 | Solid | 08/24/22 13:00 | 08/25/22 08:39 | 1 |
| 890-2847-5 | FS02 | Solid | 08/24/22 13:05 | 08/25/22 08:39 | 1 |

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Houston, TX (261) 240-4200, Dallas, TX (214) 902-0360
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

| | | | |
|------------------|-------------------------|-------------------------|-----------------------------|
| Project Manager: | Ben Beill | Bill to: (if different) | Garret Green |
| Company Name: | Ensolium | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 3104 E. Green St. |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 303-887-2946 | Email: | Garret.Green@ExxonMobil.com |

| Work Order Comments | |
|---------------------|--|
| Program: UST/PST | <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> |
| State of Project: | |
| Reporting: Level II | <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Deliverables: EDD | <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|----------------------------|--|---|--|----------------------|--|------------------|--|--|--|--|--|--|--|--|--|--|--|---|--|---------------------|--|--|--|
| Project Name: | | PLU Pierce Canyon 17 SWD 1 | | Turn Around | | Pres. Code | | ANALYSIS REQUEST | | | | | | | | | | | | Preservative Codes | | | | | |
| Project Number: | | 0361558087 | | <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush | | | | | | | | | | | | | | | | None: NO DI Water: H ₂ O | | | | | |
| Project Location: | | | | Due Date: | | 2 DAY | | | | | | | | | | | | | | Cool: Cool MeOH: Me | | | | | |
| Sampler's Name: | | Conner Shore | | TAT starts the day received by the lab, if received by 4:30pm | | | | | | | | | | | | | | | | HCL: HC HNO ₃ : HN | | | | | |
| PO #: | | | | Wet Ice: | | Yes No | | | | | | | | | | | | | | H ₂ SO ₄ : H ₂ NaOH: Na | | | | | |
| SAMPLE RECEIPT | | Temp Blank: | | Yes No | | | | | | | | | | | | | | | | H ₃ PO ₄ : HP | | | | | |
| Samples Received Intact: | | Yes No | | Thermometer ID: | | 74411802 | | | | | | | | | | | | | | NaHSO ₄ : NABIS | | | | | |
| Cooler Custody Seals: | | Yes No | | Correction Factor: | | -0.2 | | | | | | | | | | | | | | Na ₂ S ₂ O ₃ : NaSO ₃ | | | | | |
| Sample Custody Seals: | | Yes No | | N/A | | Temperature Reading: | | 4.2 | | | | | | | | | | | | | | Zn Acetate+NaOH: Zn | | | |
| Total Containers: | | | | Corrected Temperature: | | 4.0 | | | | | | | | | | | | | | NaOH+Ascorbic Acid: SAPC | | | | | |

[illegible]

| 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 Ti Sn U V Zn |
| TCLP / SPLP 6010: 8RCRA | | | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U |
| | | | Hg: 163.1 / 245.1 / 7470 / 7471 |

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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| <i>[Signature]</i> | <i>[Signature]</i> | 8.25.22 8:39 | | | |
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| | | | | | |

5.14.22 Date: 08.05.2020 By: 2020

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2847-1

SDG Number: 03E1558087

Login Number: 2847

List Number: 1

Creator: Clifton, Cloe

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. | 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 | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2847-1

SDG Number: 03E1558087

Login Number: 2847

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 08/26/22 11:03 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/13/2023 7:53:34 AM

JOB DESCRIPTION

PLU PC17 Fed SW 0001

03C1558087

JOB NUMBER

890-5712-1

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
12/13/2023 7:53:34 AM

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

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Laboratory Job ID: 890-5712-1
SDG: 03C1558087

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Job ID: 890-5712-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-5712-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/4/2023 8:17 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 0.8°C

Receipt Exceptions

The following samples > were received and analyzed from an unpreserved bulk soil jar: FS 03 (890-5712-1), FS 04 (890-5712-2), FS 07 (890-5712-3), FS 09 (890-5712-4), SW 04 (890-5712-5), FS 06 (890-5712-6), FS 15 (890-5712-7), FS 16 (890-5712-8), SW 02 (890-5712-9), SW 03 (890-5712-10), FS 10 (890-5712-11), FS 11 (890-5712-12), FS 12 (890-5712-13), FS 13 (890-5712-14), FS 14 (890-5712-15), FS 17 (890-5712-16), FS 18 (890-5712-17), FS 19 (890-5712-18), FS 20 (890-5712-19), SW 05 (890-5712-20), SW 06 (890-5712-21), FS 21 (890-5712-22), FS 22 (890-5712-23), FS 05 (890-5712-24), FS 08 (890-5712-25) and SW 01 (890-5712-26).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68391 and analytical batch 880-68741 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-68391 and analytical batch 880-68741 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-68741 recovered under the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-68401/1-A) and (LCSD 880-68401/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5712-A-1-E MS) and (890-5712-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 09 (890-5712-4), SW 04 (890-5712-5), FS 06 (890-5712-6), FS 15 (890-5712-7), FS 16 (890-5712-8) and SW 03 (890-5712-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 17 (890-5712-16), FS 19 (890-5712-18), FS 20 (890-5712-19) and SW 05 (890-5712-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-68401 and analytical batch 880-68650 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Job ID: 890-5712-1 (Continued)**Laboratory: Eurofins Carlsbad (Continued)**

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68386 and analytical batch 880-68368 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-36387-A-4-F MS) and (880-36387-A-4-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 04 (890-5712-2) and FS 07 (890-5712-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-68368/20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68386 and analytical batch 880-68368 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-68368 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-68368/20).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68410 and analytical batch 880-68448 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 09 (890-5712-4), SW 04 (890-5712-5), FS 06 (890-5712-6), FS 15 (890-5712-7), SW 03 (890-5712-10), FS 10 (890-5712-11), FS 12 (890-5712-13), (890-5712-A-4-C MS) and (890-5712-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 13 (890-5712-14), FS 17 (890-5712-16), FS 18 (890-5712-17), SW 05 (890-5712-20) and SW 06 (890-5712-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-68547 and analytical batch 880-68559 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-68405 and analytical batch 880-68428 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 03

Lab Sample ID: 890-5712-1

Date Collected: 11/27/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U F1 | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 19:47 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 19:47 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/09/23 19:47 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/05/23 17:47 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:10 | 12/05/23 17:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:10 | 12/05/23 17:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:10 | 12/05/23 17:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 129 | | 70 - 130 | 12/05/23 12:10 | 12/05/23 17:47 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | 12/05/23 12:10 | 12/05/23 17:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 771 | | 49.5 | mg/Kg | | | 12/05/23 17:46 | 10 |

Client Sample ID: FS 04

Lab Sample ID: 890-5712-2

Date Collected: 11/27/23 10:35

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 128 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 20:13 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 20:13 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 04

Lab Sample ID: 890-5712-2

Date Collected: 11/27/23 10:35

Matrix: Solid

Date Received: 12/04/23 08:17

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/09/23 20:13 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 12/05/23 18:09 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:09 | 1 |
| Oil Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 132 | S1+ | 70 - 130 | | | 12/05/23 12:10 | 12/05/23 18:09 | 1 |
| o-Terphenyl | 115 | | 70 - 130 | | | 12/05/23 12:10 | 12/05/23 18:09 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1940 | | 25.0 | mg/Kg | | | 12/05/23 18:05 | 5 |

Client Sample ID: FS 07

Lab Sample ID: 890-5712-3

Date Collected: 11/27/23 13:50

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115 | | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 20:40 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 20:40 | 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 | | | 12/09/23 20:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/05/23 18:30 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:30 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 07

Lab Sample ID: 890-5712-3

Date Collected: 11/27/23 13:50

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:10 | 12/05/23 18:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 151 | S1+ | 70 - 130 | | | 12/05/23 12:10 | 12/05/23 18:30 | 1 |
| o-Terphenyl | 129 | | 70 - 130 | | | 12/05/23 12:10 | 12/05/23 18:30 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 228 | | 4.97 | mg/Kg | | | 12/05/23 18:12 | 1 |

Client Sample ID: FS 09

Lab Sample ID: 890-5712-4

Date Collected: 11/27/23 13:55

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 167 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 21:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 86 | | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 21:07 | 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 | | | 12/09/23 21:07 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 12/06/23 12:21 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 12:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 12:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 12:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 138 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 12:21 | 1 |
| o-Terphenyl | 119 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 12:21 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 23.1 | | 5.00 | mg/Kg | | | 12/05/23 18:18 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 04

Lab Sample ID: 890-5712-5

Date Collected: 11/28/23 10:20

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/09/23 21:34 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 167 | S1+ | 70 - 130 | 12/05/23 10:27 | 12/09/23 21:34 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 21:34 | 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 | | | 12/09/23 21:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 12/06/23 13:26 | 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 | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:26 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:26 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 13:26 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 13:26 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 119 | | 5.00 | mg/Kg | | | 12/05/23 18:25 | 1 |

Client Sample ID: FS 06

Lab Sample ID: 890-5712-6

Date Collected: 11/28/23 10:25

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:00 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 159 | S1+ | 70 - 130 | 12/05/23 10:27 | 12/09/23 22:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 22:00 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 06

Lab Sample ID: 890-5712-6

Date Collected: 11/28/23 10:25

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | | 12/09/23 22:00 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/23 13:47 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:47 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 13:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 13:47 | 1 |
| o-Terphenyl | 109 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 13:47 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 141 | | 4.96 | mg/Kg | | | 12/05/23 18:45 | 1 |

Client Sample ID: FS 15

Lab Sample ID: 890-5712-7

Date Collected: 11/28/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 152 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 22:26 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/09/23 22:26 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/23 14:09 | 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 | | 12/05/23 12:25 | 12/06/23 14:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:09 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 15

Lab Sample ID: 890-5712-7

Date Collected: 11/28/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 153 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 14:09 | 1 |
| o-Terphenyl | 125 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 14:09 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 38.3 | | 4.97 | mg/Kg | | | 12/05/23 18:51 | 1 |

Client Sample ID: FS 16

Lab Sample ID: 890-5712-8

Date Collected: 11/28/23 10:35

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 161 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |
| 1,4-Difluorobenzene (Surr) | 123 | | 70 - 130 | | | 12/05/23 10:27 | 12/09/23 22:52 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/09/23 22:52 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 12/06/23 14:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:31 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 124 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 14:31 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 14:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 102 | | 4.98 | mg/Kg | | | 12/05/23 18:58 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 02

Lab Sample ID: 890-5712-9

Date Collected: 11/29/23 10:15

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 23:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 71 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 23:17 | 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 | | | 12/09/23 23:17 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 12/06/23 14:53 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:53 | 1 |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 14:53 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 125 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 14:53 | 1 |
| o-Terphenyl | 106 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 14:53 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 23.5 | | 5.00 | mg/Kg | | | 12/05/23 19:04 | 1 |

Client Sample ID: SW 03

Lab Sample ID: 890-5712-10

Date Collected: 11/29/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/09/23 23:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 147 | S1+ | 70 - 130 | 12/05/23 10:27 | 12/09/23 23:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 23:42 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 03

Lab Sample ID: 890-5712-10

Date Collected: 11/29/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | | 12/09/23 23:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.2 | U | 50.2 | mg/Kg | | | 12/06/23 15:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2 | U | 50.2 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.2 | U | 50.2 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:15 | 1 |
| Oil Range Organics (Over C28-C36) | <50.2 | U | 50.2 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 135 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:15 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:15 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 7.21 | | 5.05 | mg/Kg | | | 12/05/23 19:11 | 1 |

Client Sample ID: FS 10

Lab Sample ID: 890-5712-11

Date Collected: 12/01/23 09:00

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 120 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 01:25 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/10/23 01:25 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3 | U | 50.3 | mg/Kg | | | 12/06/23 15:37 | 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 | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:37 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 10

Lab Sample ID: 890-5712-11

Date Collected: 12/01/23 09:00

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:37 | 1 |
| o-Terphenyl | 123 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:37 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 75.5 | | 4.98 | mg/Kg | | | 12/05/23 19:17 | 1 |

Client Sample ID: FS 11

Lab Sample ID: 890-5712-12

Date Collected: 12/01/23 09:05

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 127 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 01:50 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/10/23 01:50 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 12/06/23 15:59 | 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 | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:59 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 15:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 128 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:59 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 15:59 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 207 | | 5.05 | mg/Kg | | | 12/05/23 19:37 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 12

Lab Sample ID: 890-5712-13

Date Collected: 12/01/23 09:10

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:16 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 02:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 02:16 | 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 | | | 12/10/23 02:16 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/23 16:21 | 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 | | 12/05/23 12:25 | 12/06/23 16:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 16:21 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 16:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 16:21 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 16:21 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 21.1 | | 4.96 | mg/Kg | | | 12/05/23 19:43 | 1 |

Client Sample ID: FS 13

Lab Sample ID: 890-5712-14

Date Collected: 12/01/23 09:15

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/10/23 02:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 02:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 74 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 02:42 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 13

Lab Sample ID: 890-5712-14

Date Collected: 12/01/23 09:15

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | | 12/10/23 02:42 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8 | U | 49.8 | mg/Kg | | | 12/06/23 17:06 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:06 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:06 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 135 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:06 | 1 |
| o-Terphenyl | 114 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:06 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 25.1 | | 5.00 | mg/Kg | | | 12/05/23 20:03 | 1 |

Client Sample ID: FS 14

Lab Sample ID: 890-5712-15

Date Collected: 12/01/23 09:20

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 03:07 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 03:07 | 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 | | | 12/10/23 03:07 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/06/23 17:28 | 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 | | 12/05/23 12:25 | 12/06/23 17:28 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:28 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 14

Lab Sample ID: 890-5712-15

Date Collected: 12/01/23 09:20

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 114 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:28 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:28 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 248 | | 4.97 | mg/Kg | | | 12/05/23 20:10 | 1 |

Client Sample ID: FS 17

Lab Sample ID: 890-5712-16

Date Collected: 12/01/23 09:25

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 145 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 03:33 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/10/23 03:33 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 12/06/23 17:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:49 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:49 | 1 |
| Oil Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 12/05/23 12:25 | 12/06/23 17:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 143 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:49 | 1 |
| o-Terphenyl | 122 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 17:49 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1870 | | 24.8 | mg/Kg | | | 12/05/23 20:16 | 5 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 18

Lab Sample ID: 890-5712-17

Date Collected: 12/01/23 09:30

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 10:27 | 12/10/23 03:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 03:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 03:59 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/10/23 03:59 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 12/06/23 18:10 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U | 50.4 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:10 | 1 |
| Oil Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 18:10 | 1 |
| o-Terphenyl | 112 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 18:10 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2190 | | 25.2 | mg/Kg | | | 12/05/23 20:23 | 5 |

Client Sample ID: FS 19

Lab Sample ID: 890-5712-18

Date Collected: 12/01/23 09:35

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 164 | S1+ | 70 - 130 | 12/05/23 10:27 | 12/10/23 04:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 114 | | 70 - 130 | 12/05/23 10:27 | 12/10/23 04:24 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 19

Lab Sample ID: 890-5712-18

Date Collected: 12/01/23 09:35

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | | 12/10/23 04:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 12/06/23 18:31 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:31 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 127 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 18:31 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 18:31 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2110 | | 25.0 | mg/Kg | | | 12/05/23 20:29 | 5 |

Client Sample ID: FS 20

Lab Sample ID: 890-5712-19

Date Collected: 12/01/23 09:40

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 135 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 04:50 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/10/23 04:50 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 12/06/23 18:54 | 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 | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:54 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:54 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 20

Lab Sample ID: 890-5712-19

Date Collected: 12/01/23 09:40

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 12/05/23 12:25 | 12/06/23 18:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 128 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 18:54 | 1 |
| o-Terphenyl | 108 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 18:54 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3460 | | 49.9 | mg/Kg | | | 12/05/23 20:36 | 10 |

Client Sample ID: SW 05

Lab Sample ID: 890-5712-20

Date Collected: 12/01/23 11:45

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 158 | S1+ | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 05:16 | 1 |
| 1,4-Difluorobenzene (Surr) | 116 | | 70 - 130 | | | 12/05/23 10:27 | 12/10/23 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 | | | 12/10/23 05:16 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 12/06/23 19:15 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:15 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:15 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 134 | S1+ | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 19:15 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 19:15 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 565 | | 24.8 | mg/Kg | | | 12/05/23 20:42 | 5 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 06

Lab Sample ID: 890-5712-21

Date Collected: 12/01/23 14:25

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 75 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 00:08 | 1 |
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 00:08 | 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 | | | 12/10/23 00:08 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.3 | U | 50.3 | mg/Kg | | | 12/06/23 19:37 | 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 | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:37 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:37 | 1 |
| Oil Range Organics (Over C28-C36) | <50.3 | U | 50.3 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:37 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 147 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 19:37 | 1 |
| o-Terphenyl | 120 | | 70 - 130 | 12/05/23 12:25 | 12/06/23 19:37 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2470 | | 25.0 | mg/Kg | | | 12/05/23 20:29 | 5 |

Client Sample ID: FS 21

Lab Sample ID: 890-5712-22

Date Collected: 12/01/23 14:55

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 00:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 00:29 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 21

Lab Sample ID: 890-5712-22

Date Collected: 12/01/23 14:55

Matrix: Solid

Date Received: 12/04/23 08:17

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 12/10/23 00:29 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 12/06/23 19:59 | 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 | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:59 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 12/05/23 12:25 | 12/06/23 19:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 130 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 19:59 | 1 |
| o-Terphenyl | 108 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 19:59 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2920 | | 24.8 | mg/Kg | | | 12/05/23 20:35 | 5 |

Client Sample ID: FS 22

Lab Sample ID: 890-5712-23

Date Collected: 12/01/23 15:00

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 79 | | 70 - 130 | | | 12/05/23 12:45 | 12/10/23 00:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 74 | | 70 - 130 | | | 12/05/23 12:45 | 12/10/23 00:49 | 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 | | | 12/10/23 00:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 12/06/23 20:21 | 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 | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 20:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 20:21 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 22

Lab Sample ID: 890-5712-23

Date Collected: 12/01/23 15:00

Matrix: Solid

Date Received: 12/04/23 08:17

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 12/05/23 12:25 | 12/06/23 20:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 20:21 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 12/05/23 12:25 | 12/06/23 20:21 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 230 | | 4.95 | mg/Kg | | | 12/05/23 20:41 | 1 |

Client Sample ID: FS 05

Lab Sample ID: 890-5712-24

Date Collected: 12/01/23 15:15

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 78 | | 70 - 130 | | | 12/05/23 12:45 | 12/10/23 01:09 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | | | 12/05/23 12:45 | 12/10/23 01:09 | 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 | | | 12/10/23 01:09 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 12/07/23 10:24 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 50.1 | mg/Kg | | 12/06/23 17:12 | 12/07/23 10:24 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 50.1 | mg/Kg | | 12/06/23 17:12 | 12/07/23 10:24 | 1 |
| Oil Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 12/06/23 17:12 | 12/07/23 10:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 87 | | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 10:24 | 1 |
| o-Terphenyl | 97 | | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 10:24 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2060 | | 25.3 | mg/Kg | | | 12/05/23 20:58 | 5 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 08

Lab Sample ID: 890-5712-25

Date Collected: 12/01/23 15:20

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 01:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 01:30 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/10/23 01:30 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 12/07/23 11:29 | 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 | <49.7 | U | 49.7 | mg/Kg | | 12/06/23 17:12 | 12/07/23 11:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 12/06/23 17:12 | 12/07/23 11:29 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 12/06/23 17:12 | 12/07/23 11:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 79 | | 70 - 130 | 12/06/23 17:12 | 12/07/23 11:29 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | 12/06/23 17:12 | 12/07/23 11:29 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1890 | | 25.1 | mg/Kg | | | 12/05/23 21:03 | 5 |

Client Sample ID: SW 01

Lab Sample ID: 890-5712-26

Date Collected: 12/01/23 15:10

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 12/05/23 12:45 | 12/10/23 01:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 01:50 | 1 |
| 1,4-Difluorobenzene (Surr) | 76 | | 70 - 130 | 12/05/23 12:45 | 12/10/23 01:50 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 01

Lab Sample ID: 890-5712-26

Date Collected: 12/01/23 15:10

Matrix: Solid

Date Received: 12/04/23 08:17

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 | | | 12/10/23 01:50 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/07/23 11:51 | 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 | | 12/06/23 17:12 | 12/07/23 11:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/06/23 17:12 | 12/07/23 11:51 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/06/23 17:12 | 12/07/23 11:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 90 | | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 11:51 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 11:51 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 36.0 | | 4.99 | mg/Kg | | | 12/05/23 21:09 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|-----------------------------------|------------------------|--|----------|--|--|--|--|
| Lab Sample ID | Client Sample ID | BFB1 | DFBZ1 | | | | |
| | | (70-130) | (70-130) | | | | |
| 880-36564-A-41-J MS | Matrix Spike | 94 | 106 | | | | |
| 880-36564-A-41-K MSD | Matrix Spike Duplicate | 99 | 105 | | | | |
| 890-5712-1 | FS 03 | 112 | 93 | | | | |
| 890-5712-1 MS | FS 03 | 135 S1+ | 77 | | | | |
| 890-5712-1 MSD | FS 03 | 157 S1+ | 98 | | | | |
| 890-5712-2 | FS 04 | 128 | 92 | | | | |
| 890-5712-3 | FS 07 | 115 | 89 | | | | |
| 890-5712-4 | FS 09 | 167 S1+ | 86 | | | | |
| 890-5712-5 | SW 04 | 167 S1+ | 104 | | | | |
| 890-5712-6 | FS 06 | 159 S1+ | 105 | | | | |
| 890-5712-7 | FS 15 | 152 S1+ | 94 | | | | |
| 890-5712-8 | FS 16 | 161 S1+ | 123 | | | | |
| 890-5712-9 | SW 02 | 125 | 71 | | | | |
| 890-5712-10 | SW 03 | 147 S1+ | 104 | | | | |
| 890-5712-11 | FS 10 | 120 | 90 | | | | |
| 890-5712-12 | FS 11 | 127 | 97 | | | | |
| 890-5712-13 | FS 12 | 125 | 94 | | | | |
| 890-5712-14 | FS 13 | 98 | 74 | | | | |
| 890-5712-15 | FS 14 | 125 | 91 | | | | |
| 890-5712-16 | FS 17 | 145 S1+ | 90 | | | | |
| 890-5712-17 | FS 18 | 119 | 93 | | | | |
| 890-5712-18 | FS 19 | 164 S1+ | 114 | | | | |
| 890-5712-19 | FS 20 | 135 S1+ | 89 | | | | |
| 890-5712-20 | SW 05 | 158 S1+ | 116 | | | | |
| 890-5712-21 | SW 06 | 75 | 75 | | | | |
| 890-5712-22 | FS 21 | 82 | 75 | | | | |
| 890-5712-23 | FS 22 | 79 | 74 | | | | |
| 890-5712-24 | FS 05 | 78 | 83 | | | | |
| 890-5712-25 | FS 08 | 78 | 77 | | | | |
| 890-5712-26 | SW 01 | 76 | 76 | | | | |
| LCS 880-68391/1-A | Lab Control Sample | 91 | 106 | | | | |
| LCS 880-68401/1-A | Lab Control Sample | 147 S1+ | 89 | | | | |
| LCSD 880-68391/2-A | Lab Control Sample Dup | 93 | 104 | | | | |
| LCSD 880-68401/2-A | Lab Control Sample Dup | 134 S1+ | 79 | | | | |
| MB 880-68391/5-A | Method Blank | 66 S1- | 94 | | | | |
| MB 880-68401/5-B | Method Blank | 77 | 83 | | | | |
| MB 880-68650/39 | Method Blank | 86 | 96 | | | | |
| Surrogate Legend | | | | | | | |
| BFB = 4-Bromofluorobenzene (Surr) | | | | | | | |
| DFBZ = 1,4-Difluorobenzene (Surr) | | | | | | | |

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

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---------------------|------------------------|--|----------|--|--|--|--|
| Lab Sample ID | Client Sample ID | 1CO1 | OTPH1 | | | | |
| | | (70-130) | (70-130) | | | | |
| 880-36387-A-4-F MS | Matrix Spike | 151 S1+ | 107 | | | | |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | 149 S1+ | 106 | | | | |

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Surrogate Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-5712-1 | FS 03 | 129 | 114 |
| 890-5712-2 | FS 04 | 132 S1+ | 115 |
| 890-5712-3 | FS 07 | 151 S1+ | 129 |
| 890-5712-4 | FS 09 | 138 S1+ | 119 |
| 890-5712-4 MS | FS 09 | 142 S1+ | 96 |
| 890-5712-4 MSD | FS 09 | 143 S1+ | 98 |
| 890-5712-5 | SW 04 | 133 S1+ | 112 |
| 890-5712-6 | FS 06 | 133 S1+ | 109 |
| 890-5712-7 | FS 15 | 153 S1+ | 125 |
| 890-5712-8 | FS 16 | 124 | 102 |
| 890-5712-9 | SW 02 | 125 | 106 |
| 890-5712-10 | SW 03 | 135 S1+ | 113 |
| 890-5712-11 | FS 10 | 144 S1+ | 123 |
| 890-5712-12 | FS 11 | 128 | 105 |
| 890-5712-13 | FS 12 | 131 S1+ | 112 |
| 890-5712-14 | FS 13 | 135 S1+ | 114 |
| 890-5712-15 | FS 14 | 114 | 96 |
| 890-5712-16 | FS 17 | 143 S1+ | 122 |
| 890-5712-17 | FS 18 | 133 S1+ | 112 |
| 890-5712-18 | FS 19 | 127 | 107 |
| 890-5712-19 | FS 20 | 128 | 108 |
| 890-5712-20 | SW 05 | 134 S1+ | 113 |
| 890-5712-21 | SW 06 | 147 S1+ | 120 |
| 890-5712-22 | FS 21 | 130 | 108 |
| 890-5712-23 | FS 22 | 122 | 105 |
| 890-5712-24 | FS 05 | 87 | 97 |
| 890-5712-24 MS | FS 05 | 95 | 84 |
| 890-5712-24 MSD | FS 05 | 85 | 84 |
| 890-5712-25 | FS 08 | 79 | 93 |
| 890-5712-26 | SW 01 | 90 | 94 |
| LCS 880-68386/2-A | Lab Control Sample | 114 | 115 |
| LCS 880-68410/2-A | Lab Control Sample | 112 | 115 |
| LCS 880-68547/2-A | Lab Control Sample | 93 | 97 |
| LCSD 880-68386/3-A | Lab Control Sample Dup | 112 | 102 |
| LCSD 880-68410/3-A | Lab Control Sample Dup | 106 | 94 |
| LCSD 880-68547/3-A | Lab Control Sample Dup | 80 | 85 |
| MB 880-68386/1-A | Method Blank | 192 S1+ | 183 S1+ |
| MB 880-68410/1-A | Method Blank | 185 S1+ | 165 S1+ |
| MB 880-68547/1-A | Method Blank | 139 S1+ | 153 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68391/5-A

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/07/23 13:40 | 12/09/23 18:59 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 66 | S1- | 70 - 130 | 12/07/23 13:40 | 12/09/23 18:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | 12/07/23 13:40 | 12/09/23 18:59 | 1 |

Lab Sample ID: LCS 880-68391/1-A

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.09894 | | mg/Kg | | 99 | 70 - 130 |
| Toluene | 0.100 | 0.09159 | | mg/Kg | | 92 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09232 | | mg/Kg | | 92 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1891 | | mg/Kg | | 95 | 70 - 130 |
| o-Xylene | 0.100 | 0.08883 | | mg/Kg | | 89 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 91 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-68391/2-A

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|-------|
| Benzene | 0.100 | 0.08759 | | mg/Kg | | 88 | 70 - 130 | 12 | 35 |
| Toluene | 0.100 | 0.08082 | | mg/Kg | | 81 | 70 - 130 | 12 | 35 |
| Ethylbenzene | 0.100 | 0.08319 | | mg/Kg | | 83 | 70 - 130 | 10 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1690 | | mg/Kg | | 85 | 70 - 130 | 11 | 35 |
| o-Xylene | 0.100 | 0.07985 | | mg/Kg | | 80 | 70 - 130 | 11 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 880-36564-A-41-J MS

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | 0.0178 | F1 | 0.0990 | 0.08263 | F1 | mg/Kg | | 65 | 70 - 130 |
| Toluene | 0.162 | F1 | 0.0990 | 0.07071 | F1 | mg/Kg | | -92 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: 880-36564-A-41-J MS

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | 0.0199 | F1 | 0.0990 | 0.06740 | F1 | mg/Kg | | 48 | 70 - 130 |
| m-Xylene & p-Xylene | 0.0555 | F1 | 0.198 | 0.1332 | F1 | mg/Kg | | 39 | 70 - 130 |
| o-Xylene | 0.0400 | F1 | 0.0990 | 0.06437 | F1 | mg/Kg | | 25 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: 880-36564-A-41-K MSD

Matrix: Solid

Analysis Batch: 68741

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68391

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.0178 | F1 | 0.0990 | 0.07905 | F1 | mg/Kg | | 62 | 70 - 130 | 4 | 35 |
| Toluene | 0.162 | F1 | 0.0990 | 0.06539 | F1 | mg/Kg | | -97 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.0199 | F1 | 0.0990 | 0.06388 | F1 | mg/Kg | | 44 | 70 - 130 | 5 | 35 |
| m-Xylene & p-Xylene | 0.0555 | F1 | 0.198 | 0.1267 | F1 | mg/Kg | | 36 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.0400 | F1 | 0.0990 | 0.06192 | F1 | mg/Kg | | 22 | 70 - 130 | 4 | 35 |

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

Lab Sample ID: MB 880-68401/5-B

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/05/23 10:27 | 12/09/23 19:20 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 77 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 19:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 83 | | 70 - 130 | 12/05/23 10:27 | 12/09/23 19:20 | 1 |

Lab Sample ID: LCS 880-68401/1-A

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene | 0.100 | 0.08730 | | mg/Kg | | 87 | 70 - 130 |
| Toluene | 0.100 | 0.1010 | | mg/Kg | | 101 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09458 | | mg/Kg | | 95 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1832 | | mg/Kg | | 92 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: LCS 880-68401/1-A

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| o-Xylene | 0.100 | 0.09973 | | mg/Kg | | 100 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 147 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 |

Lab Sample ID: LCSD 880-68401/2-A

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.07833 | | mg/Kg | | 78 | 70 - 130 | 11 | 35 |
| Toluene | 0.100 | 0.08724 | | mg/Kg | | 87 | 70 - 130 | 15 | 35 |
| Ethylbenzene | 0.100 | 0.09061 | | mg/Kg | | 91 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1675 | | mg/Kg | | 84 | 70 - 130 | 9 | 35 |
| o-Xylene | 0.100 | 0.09106 | | mg/Kg | | 91 | 70 - 130 | 9 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 134 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 79 | | 70 - 130 |

Lab Sample ID: 890-5712-1 MS

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: FS 03

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200 | U F1 | 0.0996 | 0.06908 | F1 | mg/Kg | | 69 | 70 - 130 |
| Toluene | <0.00200 | U | 0.0996 | 0.07271 | | mg/Kg | | 73 | 70 - 130 |
| Ethylbenzene | <0.00200 | U | 0.0996 | 0.07359 | | mg/Kg | | 74 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.199 | 0.1421 | | mg/Kg | | 71 | 70 - 130 |
| o-Xylene | <0.00200 | U | 0.0996 | 0.07467 | | mg/Kg | | 75 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 135 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 |

Lab Sample ID: 890-5712-1 MSD

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: FS 03

Prep Type: Total/NA

Prep Batch: 68401

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00200 | U F1 | 0.0990 | 0.07938 | | mg/Kg | | 80 | 70 - 130 | 14 | 35 |
| Toluene | <0.00200 | U | 0.0990 | 0.08664 | | mg/Kg | | 88 | 70 - 130 | 17 | 35 |
| Ethylbenzene | <0.00200 | U | 0.0990 | 0.08058 | | mg/Kg | | 81 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.198 | 0.1515 | | mg/Kg | | 77 | 70 - 130 | 6 | 35 |
| o-Xylene | <0.00200 | U | 0.0990 | 0.08275 | | mg/Kg | | 84 | 70 - 130 | 10 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: 890-5712-1 MSD

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: FS 03

Prep Type: Total/NA

Prep Batch: 68401

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 157 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

Lab Sample ID: MB 880-68650/39

Matrix: Solid

Analysis Batch: 68650

Client Sample ID: Method Blank

Prep Type: Total/NA

| | MB | MB | | | | | | | |
|-----------------------------|-----------|-----------|----------|-------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | | 12/09/23 06:22 | 1 | |
| | MB | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | | | | 12/09/23 06:22 | 1 | |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | | 12/09/23 06:22 | 1 | |

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

Lab Sample ID: MB 880-68386/1-A

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68386

| | MB | MB | | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 07:30 | 12/05/23 07:57 | 1 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 07:30 | 12/05/23 07:57 | 1 | |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 07:30 | 12/05/23 07:57 | 1 | |
| | MB | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1-Chlorooctane | 192 | S1+ | 70 - 130 | | | 12/05/23 07:30 | 12/05/23 07:57 | 1 | |
| o-Terphenyl | 183 | S1+ | 70 - 130 | | | 12/05/23 07:30 | 12/05/23 07:57 | 1 | |

Lab Sample ID: LCS 880-68386/2-A

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68386

| | | Spike | LCS | LCS | | | | %Rec | |
|--------------------------------------|-----------|-----------|----------|-----------|-------|---|------|----------|--|
| Analyte | | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | 1179 | | mg/Kg | | 118 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | | 1000 | 1191 | | mg/Kg | | 119 | 70 - 130 | |
| | LCS | LCS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 114 | | 70 - 130 | | | | | | |
| o-Terphenyl | 115 | | 70 - 130 | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: LCSD 880-68386/3-A

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68386

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1178 | | mg/Kg | | 118 | 70 - 130 | 0 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1161 | | mg/Kg | | 116 | 70 - 130 | 3 | 20 |
| | | | | | | | | | |
| | | LCSD | LCSD | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 112 | | 70 - 130 | | | | | | |
| o-Terphenyl | 102 | | 70 - 130 | | | | | | |

Lab Sample ID: 880-36387-A-4-F MS

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 68386

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 1010 | 1188 | | mg/Kg | | 115 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | <49.8 | U F1 | 1010 | 1447 | F1 | mg/Kg | | 141 | 70 - 130 | | |
| | | | | | | | | | | | |
| | | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 151 | S1+ | 70 - 130 | | | | | | | | |
| o-Terphenyl | 107 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 880-36387-A-4-G MSD

Matrix: Solid

Analysis Batch: 68368

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68386

| 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 | 1010 | 1001 | | mg/Kg | | 97 | 70 - 130 | 17 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U F1 | 1010 | 1444 | F1 | mg/Kg | | 140 | 70 - 130 | 0 | 20 |
| | | | | | | | | | | | |
| | | MSD | MSD | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 149 | S1+ | 70 - 130 | | | | | | | | |
| o-Terphenyl | 106 | | 70 - 130 | | | | | | | | |

Lab Sample ID: MB 880-68410/1-A

Matrix: Solid

Analysis Batch: 68448

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68410

| 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 | | 12/05/23 12:25 | 12/06/23 07:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 07:48 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/05/23 12:25 | 12/06/23 07:48 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: MB 880-68410/1-A
Matrix: Solid
Analysis Batch: 68448

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68410

| | MB | MB | | | | | | | | |
|----------------|-----------|-----------|----------|----------------|----------------|-----|-----|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil | Fac | | | |
| 1-Chlorooctane | 185 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 07:48 | 1 | | | | |
| o-Terphenyl | 165 | S1+ | 70 - 130 | 12/05/23 12:25 | 12/06/23 07:48 | 1 | | | | |

Lab Sample ID: LCS 880-68410/2-A
Matrix: Solid
Analysis Batch: 68448

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68410

| | | | Spike | LCS | LCS | | | | %Rec | | |
|--------------------------------------|--|--|-------|--------|-----------|-------|---|------|----------|--|--|
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 965.5 | | mg/Kg | | 97 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 994.5 | | mg/Kg | | 99 | 70 - 130 | | |

| | LCS | LCS | | | | | | | | | |
|----------------|-----------|-----------|----------|--|--|--|--|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 112 | | 70 - 130 | | | | | | | | |
| o-Terphenyl | 115 | | 70 - 130 | | | | | | | | |

Lab Sample ID: LCSD 880-68410/3-A
Matrix: Solid
Analysis Batch: 68448

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68410

| | | | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|--------------------------------------|--|--|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 982.3 | | mg/Kg | | 98 | 70 - 130 | 2 | 20 | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1007 | | mg/Kg | | 101 | 70 - 130 | 1 | 20 | |

| | LCSD | LCSD | | | | | | | | | | |
|----------------|-----------|-----------|----------|--|--|--|--|--|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 94 | | 70 - 130 | | | | | | | | | |

Lab Sample ID: 890-5712-4 MS
Matrix: Solid
Analysis Batch: 68448

Client Sample ID: FS 09
Prep Type: Total/NA
Prep Batch: 68410

| | Sample | Sample | Spike | MS | MS | | | | %Rec | | | |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|--|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 1010 | 927.1 | | mg/Kg | | 92 | 70 - 130 | | | |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 1010 | 1269 | | mg/Kg | | 121 | 70 - 130 | | | |

| | MS | MS | | | | | | | | | | |
|----------------|-----------|-----------|----------|--|--|--|--|--|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 142 | S1+ | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 96 | | 70 - 130 | | | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: 890-5712-4 MSD

Matrix: Solid

Analysis Batch: 68448

Client Sample ID: FS 09

Prep Type: Total/NA

Prep Batch: 68410

| 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 | <50.1 | U | 1010 | 960.4 | | mg/Kg | | 95 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 1010 | 1298 | | mg/Kg | | 124 | 70 - 130 | 2 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1-Chlorooctane | 143 | S1+ | 70 - 130 | | | | | | | | |
| o-Terphenyl | 98 | | 70 - 130 | | | | | | | | |

Lab Sample ID: MB 880-68547/1-A

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68547

| 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 | | 12/06/23 17:12 | 12/07/23 07:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/06/23 17:12 | 12/07/23 07:53 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/06/23 17:12 | 12/07/23 07:53 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 139 | S1+ | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 07:53 | 1 |
| o-Terphenyl | 153 | S1+ | 70 - 130 | | | 12/06/23 17:12 | 12/07/23 07:53 | 1 |

Lab Sample ID: LCS 880-68547/2-A

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68547

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|--------------------------------------|---------------|---------------|---------------|-------|---|------|-------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 885.4 | | mg/Kg | | 89 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 946.0 | | mg/Kg | | 95 | 70 - 130 | | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 93 | | 70 - 130 | | | | | | |
| o-Terphenyl | 97 | | 70 - 130 | | | | | | |

Lab Sample ID: LCSD 880-68547/3-A

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68547

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 844.5 | | mg/Kg | | 84 | 70 - 130 | 5 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 820.6 | | mg/Kg | | 82 | 70 - 130 | 14 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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

Lab Sample ID: LCSD 880-68547/3-A

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68547

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 80 | | 70 - 130 |
| o-Terphenyl | 85 | | 70 - 130 |

Lab Sample ID: 890-5712-24 MS

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: FS 05

Prep Type: Total/NA

Prep Batch: 68547

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 1010 | 866.0 | | mg/Kg | | 86 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 1010 | 887.3 | | mg/Kg | | 88 | 70 - 130 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 95 | | 70 - 130 | | | | | | | |
| o-Terphenyl | 84 | | 70 - 130 | | | | | | | |

Lab Sample ID: 890-5712-24 MSD

Matrix: Solid

Analysis Batch: 68559

Client Sample ID: FS 05

Prep Type: Total/NA

Prep Batch: 68547

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1 | U | 1010 | 788.8 | | mg/Kg | | 78 | 70 - 130 | 9 | 20 | |
| Diesel Range Organics (Over C10-C28) | <50.1 | U | 1010 | 861.9 | | mg/Kg | | 85 | 70 - 130 | 3 | 20 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1-Chlorooctane | 85 | | 70 - 130 | | | | | | | | | |
| o-Terphenyl | 84 | | 70 - 130 | | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68405/1-A

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Method Blank

Prep Type: Soluble

| | MB | MB | | | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|-----|-----|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil | Fac | |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/05/23 19:50 | | 1 | |

Lab Sample ID: LCS 880-68405/2-A

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| | Spike | LCS | LCS | | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 250 | 257.5 | | mg/Kg | | 103 | 90 - 110 | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-68405/3-A

Matrix: Solid

Analysis Batch: 68428

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: 890-5711-A-1-B MS

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Chloride | 53.3 | F1 F2 | 2750 | 3395 | F1 | mg/Kg | | 122 | 90 - 110 | | |

Lab Sample ID: 890-5711-A-1-C MSD

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 53.3 | F1 F2 | 250 | 304.4 | F2 | mg/Kg | | 100 | 90 - 110 | 167 | 20 |

Lab Sample ID: 890-5714-A-3-B MS

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|-----|-----------|
| Chloride | 21.6 | | 248 | 271.7 | | mg/Kg | | 101 | 90 - 110 | | |

Lab Sample ID: 890-5714-A-3-C MSD

Matrix: Solid

Analysis Batch: 68428

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 21.6 | | 248 | 279.4 | | mg/Kg | | 104 | 90 - 110 | 3 | 20 |

Lab Sample ID: MB 880-68406/1-A

Matrix: Solid

Analysis Batch: 68442

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/05/23 17:26 | 1 |

Lab Sample ID: LCS 880-68406/2-A

Matrix: Solid

Analysis Batch: 68442

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250 | 254.1 | | mg/Kg | | 102 | 90 - 110 | | |

Lab Sample ID: LCSD 880-68406/3-A

Matrix: Solid

Analysis Batch: 68442

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 | 251.9 | | mg/Kg | | 101 | 90 - 110 | 1 | 20 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Method: 300.0 - Anions, Ion Chromatography

| | | | | | | | | | | | | | |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|-------------------------|--|--|
| Lab Sample ID: 890-5712-1 MS | | | | | | | | | | | Client Sample ID: FS 03 | | |
| Matrix: Solid | | | | | | | | | | | Prep Type: Soluble | | |
| Analysis Batch: 68442 | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | | | |
| Chloride | 771 | | 2480 | 3142 | | mg/Kg | | 96 | 90 - 110 | | | | |

| | | | | | | | | | | | | | |
|-------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------------------------|--|--|
| Lab Sample ID: 890-5712-1 MSD | | | | | | | | | | | Client Sample ID: FS 03 | | |
| Matrix: Solid | | | | | | | | | | | Prep Type: Soluble | | |
| Analysis Batch: 68442 | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit | | |
| Chloride | 771 | | 2480 | 3161 | | mg/Kg | | 97 | 90 - 110 | 1 | 20 | | |

| | | | | | | | | | | | | | |
|-------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|-------------------------|--|--|
| Lab Sample ID: 890-5712-11 MS | | | | | | | | | | | Client Sample ID: FS 10 | | |
| Matrix: Solid | | | | | | | | | | | Prep Type: Soluble | | |
| Analysis Batch: 68442 | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | | | |
| Chloride | 75.5 | | 249 | 311.7 | | mg/Kg | | 95 | 90 - 110 | | | | |

| | | | | | | | | | | | | | |
|--------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------------------------|--|--|
| Lab Sample ID: 890-5712-11 MSD | | | | | | | | | | | Client Sample ID: FS 10 | | |
| Matrix: Solid | | | | | | | | | | | Prep Type: Soluble | | |
| Analysis Batch: 68442 | | | | | | | | | | | | | |
| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit | | |
| Chloride | 75.5 | | 249 | 313.1 | | mg/Kg | | 95 | 90 - 110 | 0 | 20 | | |

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

GC VOA

Prep Batch: 68391

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-21 | SW 06 | Total/NA | Solid | 5035 | |
| 890-5712-22 | FS 21 | Total/NA | Solid | 5035 | |
| 890-5712-23 | FS 22 | Total/NA | Solid | 5035 | |
| 890-5712-24 | FS 05 | Total/NA | Solid | 5035 | |
| 890-5712-25 | FS 08 | Total/NA | Solid | 5035 | |
| 890-5712-26 | SW 01 | Total/NA | Solid | 5035 | |
| MB 880-68391/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-68391/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-68391/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-36564-A-41-J MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-36564-A-41-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 68401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | 5035 | |
| 890-5712-2 | FS 04 | Total/NA | Solid | 5035 | |
| 890-5712-3 | FS 07 | Total/NA | Solid | 5035 | |
| 890-5712-4 | FS 09 | Total/NA | Solid | 5035 | |
| 890-5712-5 | SW 04 | Total/NA | Solid | 5035 | |
| 890-5712-6 | FS 06 | Total/NA | Solid | 5035 | |
| 890-5712-7 | FS 15 | Total/NA | Solid | 5035 | |
| 890-5712-8 | FS 16 | Total/NA | Solid | 5035 | |
| 890-5712-9 | SW 02 | Total/NA | Solid | 5035 | |
| 890-5712-10 | SW 03 | Total/NA | Solid | 5035 | |
| 890-5712-11 | FS 10 | Total/NA | Solid | 5035 | |
| 890-5712-12 | FS 11 | Total/NA | Solid | 5035 | |
| 890-5712-13 | FS 12 | Total/NA | Solid | 5035 | |
| 890-5712-14 | FS 13 | Total/NA | Solid | 5035 | |
| 890-5712-15 | FS 14 | Total/NA | Solid | 5035 | |
| 890-5712-16 | FS 17 | Total/NA | Solid | 5035 | |
| 890-5712-17 | FS 18 | Total/NA | Solid | 5035 | |
| 890-5712-18 | FS 19 | Total/NA | Solid | 5035 | |
| 890-5712-19 | FS 20 | Total/NA | Solid | 5035 | |
| 890-5712-20 | SW 05 | Total/NA | Solid | 5035 | |
| MB 880-68401/5-B | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-68401/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-68401/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5712-1 MS | FS 03 | Total/NA | Solid | 5035 | |
| 890-5712-1 MSD | FS 03 | Total/NA | Solid | 5035 | |

Analysis Batch: 68485

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | Total BTEX | |
| 890-5712-2 | FS 04 | Total/NA | Solid | Total BTEX | |
| 890-5712-3 | FS 07 | Total/NA | Solid | Total BTEX | |
| 890-5712-4 | FS 09 | Total/NA | Solid | Total BTEX | |
| 890-5712-5 | SW 04 | Total/NA | Solid | Total BTEX | |
| 890-5712-6 | FS 06 | Total/NA | Solid | Total BTEX | |
| 890-5712-7 | FS 15 | Total/NA | Solid | Total BTEX | |
| 890-5712-8 | FS 16 | Total/NA | Solid | Total BTEX | |
| 890-5712-9 | SW 02 | Total/NA | Solid | Total BTEX | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

GC VOA (Continued)

Analysis Batch: 68485 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5712-10 | SW 03 | Total/NA | Solid | Total BTEX | |
| 890-5712-11 | FS 10 | Total/NA | Solid | Total BTEX | |
| 890-5712-12 | FS 11 | Total/NA | Solid | Total BTEX | |
| 890-5712-13 | FS 12 | Total/NA | Solid | Total BTEX | |
| 890-5712-14 | FS 13 | Total/NA | Solid | Total BTEX | |
| 890-5712-15 | FS 14 | Total/NA | Solid | Total BTEX | |
| 890-5712-16 | FS 17 | Total/NA | Solid | Total BTEX | |
| 890-5712-17 | FS 18 | Total/NA | Solid | Total BTEX | |
| 890-5712-18 | FS 19 | Total/NA | Solid | Total BTEX | |
| 890-5712-19 | FS 20 | Total/NA | Solid | Total BTEX | |
| 890-5712-20 | SW 05 | Total/NA | Solid | Total BTEX | |
| 890-5712-21 | SW 06 | Total/NA | Solid | Total BTEX | |
| 890-5712-22 | FS 21 | Total/NA | Solid | Total BTEX | |
| 890-5712-23 | FS 22 | Total/NA | Solid | Total BTEX | |
| 890-5712-24 | FS 05 | Total/NA | Solid | Total BTEX | |
| 890-5712-25 | FS 08 | Total/NA | Solid | Total BTEX | |
| 890-5712-26 | SW 01 | Total/NA | Solid | Total BTEX | |

Analysis Batch: 68650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-2 | FS 04 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-3 | FS 07 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-4 | FS 09 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-5 | SW 04 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-6 | FS 06 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-7 | FS 15 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-8 | FS 16 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-9 | SW 02 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-10 | SW 03 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-11 | FS 10 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-12 | FS 11 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-13 | FS 12 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-14 | FS 13 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-15 | FS 14 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-16 | FS 17 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-17 | FS 18 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-18 | FS 19 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-19 | FS 20 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-20 | SW 05 | Total/NA | Solid | 8021B | 68401 |
| MB 880-68401/5-B | Method Blank | Total/NA | Solid | 8021B | 68401 |
| MB 880-68650/39 | Method Blank | Total/NA | Solid | 8021B | |
| LCS 880-68401/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 68401 |
| LCSD 880-68401/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 68401 |
| 890-5712-1 MS | FS 03 | Total/NA | Solid | 8021B | 68401 |
| 890-5712-1 MSD | FS 03 | Total/NA | Solid | 8021B | 68401 |

Analysis Batch: 68741

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-5712-21 | SW 06 | Total/NA | Solid | 8021B | 68391 |
| 890-5712-22 | FS 21 | Total/NA | Solid | 8021B | 68391 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

GC VOA (Continued)

Analysis Batch: 68741 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-23 | FS 22 | Total/NA | Solid | 8021B | 68391 |
| 890-5712-24 | FS 05 | Total/NA | Solid | 8021B | 68391 |
| 890-5712-25 | FS 08 | Total/NA | Solid | 8021B | 68391 |
| 890-5712-26 | SW 01 | Total/NA | Solid | 8021B | 68391 |
| MB 880-68391/5-A | Method Blank | Total/NA | Solid | 8021B | 68391 |
| LCS 880-68391/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 68391 |
| LCSD 880-68391/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 68391 |
| 880-36564-A-41-J MS | Matrix Spike | Total/NA | Solid | 8021B | 68391 |
| 880-36564-A-41-K MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 68391 |

GC Semi VOA

Analysis Batch: 68368

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | 8015B NM | 68386 |
| 890-5712-2 | FS 04 | Total/NA | Solid | 8015B NM | 68386 |
| 890-5712-3 | FS 07 | Total/NA | Solid | 8015B NM | 68386 |
| MB 880-68386/1-A | Method Blank | Total/NA | Solid | 8015B NM | 68386 |
| LCS 880-68386/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 68386 |
| LCSD 880-68386/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 68386 |
| 880-36387-A-4-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 68386 |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 68386 |

Prep Batch: 68386

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-2 | FS 04 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-3 | FS 07 | Total/NA | Solid | 8015NM Prep | |
| MB 880-68386/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-68386/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-68386/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-36387-A-4-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-36387-A-4-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Prep Batch: 68410

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-5712-4 | FS 09 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-5 | SW 04 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-6 | FS 06 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-7 | FS 15 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-8 | FS 16 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-9 | SW 02 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-10 | SW 03 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-11 | FS 10 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-12 | FS 11 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-13 | FS 12 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-14 | FS 13 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-15 | FS 14 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-16 | FS 17 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-17 | FS 18 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-18 | FS 19 | Total/NA | Solid | 8015NM Prep | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

GC Semi VOA (Continued)

Prep Batch: 68410 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5712-19 | FS 20 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-20 | SW 05 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-21 | SW 06 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-22 | FS 21 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-23 | FS 22 | Total/NA | Solid | 8015NM Prep | |
| MB 880-68410/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-68410/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-68410/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5712-4 MS | FS 09 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-4 MSD | FS 09 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 68448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5712-4 | FS 09 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-5 | SW 04 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-6 | FS 06 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-7 | FS 15 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-8 | FS 16 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-9 | SW 02 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-10 | SW 03 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-11 | FS 10 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-12 | FS 11 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-13 | FS 12 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-14 | FS 13 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-15 | FS 14 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-16 | FS 17 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-17 | FS 18 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-18 | FS 19 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-19 | FS 20 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-20 | SW 05 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-21 | SW 06 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-22 | FS 21 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-23 | FS 22 | Total/NA | Solid | 8015B NM | 68410 |
| MB 880-68410/1-A | Method Blank | Total/NA | Solid | 8015B NM | 68410 |
| LCS 880-68410/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 68410 |
| LCSD 880-68410/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-4 MS | FS 09 | Total/NA | Solid | 8015B NM | 68410 |
| 890-5712-4 MSD | FS 09 | Total/NA | Solid | 8015B NM | 68410 |

Analysis Batch: 68511

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5712-1 | FS 03 | Total/NA | Solid | 8015 NM | |
| 890-5712-2 | FS 04 | Total/NA | Solid | 8015 NM | |
| 890-5712-3 | FS 07 | Total/NA | Solid | 8015 NM | |
| 890-5712-4 | FS 09 | Total/NA | Solid | 8015 NM | |
| 890-5712-5 | SW 04 | Total/NA | Solid | 8015 NM | |
| 890-5712-6 | FS 06 | Total/NA | Solid | 8015 NM | |
| 890-5712-7 | FS 15 | Total/NA | Solid | 8015 NM | |
| 890-5712-8 | FS 16 | Total/NA | Solid | 8015 NM | |
| 890-5712-9 | SW 02 | Total/NA | Solid | 8015 NM | |
| 890-5712-10 | SW 03 | Total/NA | Solid | 8015 NM | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

GC Semi VOA (Continued)

Analysis Batch: 68511 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5712-11 | FS 10 | Total/NA | Solid | 8015 NM | |
| 890-5712-12 | FS 11 | Total/NA | Solid | 8015 NM | |
| 890-5712-13 | FS 12 | Total/NA | Solid | 8015 NM | |
| 890-5712-14 | FS 13 | Total/NA | Solid | 8015 NM | |
| 890-5712-15 | FS 14 | Total/NA | Solid | 8015 NM | |
| 890-5712-16 | FS 17 | Total/NA | Solid | 8015 NM | |
| 890-5712-17 | FS 18 | Total/NA | Solid | 8015 NM | |
| 890-5712-18 | FS 19 | Total/NA | Solid | 8015 NM | |
| 890-5712-19 | FS 20 | Total/NA | Solid | 8015 NM | |
| 890-5712-20 | SW 05 | Total/NA | Solid | 8015 NM | |
| 890-5712-21 | SW 06 | Total/NA | Solid | 8015 NM | |
| 890-5712-22 | FS 21 | Total/NA | Solid | 8015 NM | |
| 890-5712-23 | FS 22 | Total/NA | Solid | 8015 NM | |
| 890-5712-24 | FS 05 | Total/NA | Solid | 8015 NM | |
| 890-5712-25 | FS 08 | Total/NA | Solid | 8015 NM | |
| 890-5712-26 | SW 01 | Total/NA | Solid | 8015 NM | |

Prep Batch: 68547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5712-24 | FS 05 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-25 | FS 08 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-26 | SW 01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-68547/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-68547/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-68547/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5712-24 MS | FS 05 | Total/NA | Solid | 8015NM Prep | |
| 890-5712-24 MSD | FS 05 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 68559

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5712-24 | FS 05 | Total/NA | Solid | 8015B NM | 68547 |
| 890-5712-25 | FS 08 | Total/NA | Solid | 8015B NM | 68547 |
| 890-5712-26 | SW 01 | Total/NA | Solid | 8015B NM | 68547 |
| MB 880-68547/1-A | Method Blank | Total/NA | Solid | 8015B NM | 68547 |
| LCS 880-68547/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 68547 |
| LCSD 880-68547/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 68547 |
| 890-5712-24 MS | FS 05 | Total/NA | Solid | 8015B NM | 68547 |
| 890-5712-24 MSD | FS 05 | Total/NA | Solid | 8015B NM | 68547 |

HPLC/IC

Leach Batch: 68405

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-5712-21 | SW 06 | Soluble | Solid | DI Leach | |
| 890-5712-22 | FS 21 | Soluble | Solid | DI Leach | |
| 890-5712-23 | FS 22 | Soluble | Solid | DI Leach | |
| 890-5712-24 | FS 05 | Soluble | Solid | DI Leach | |
| 890-5712-25 | FS 08 | Soluble | Solid | DI Leach | |
| 890-5712-26 | SW 01 | Soluble | Solid | DI Leach | |
| MB 880-68405/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-68405/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

HPLC/IC (Continued)

Leach Batch: 68405 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-68405/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5711-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-5711-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |
| 890-5714-A-3-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-5714-A-3-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 68406

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5712-1 | FS 03 | Soluble | Solid | DI Leach | |
| 890-5712-2 | FS 04 | Soluble | Solid | DI Leach | |
| 890-5712-3 | FS 07 | Soluble | Solid | DI Leach | |
| 890-5712-4 | FS 09 | Soluble | Solid | DI Leach | |
| 890-5712-5 | SW 04 | Soluble | Solid | DI Leach | |
| 890-5712-6 | FS 06 | Soluble | Solid | DI Leach | |
| 890-5712-7 | FS 15 | Soluble | Solid | DI Leach | |
| 890-5712-8 | FS 16 | Soluble | Solid | DI Leach | |
| 890-5712-9 | SW 02 | Soluble | Solid | DI Leach | |
| 890-5712-10 | SW 03 | Soluble | Solid | DI Leach | |
| 890-5712-11 | FS 10 | Soluble | Solid | DI Leach | |
| 890-5712-12 | FS 11 | Soluble | Solid | DI Leach | |
| 890-5712-13 | FS 12 | Soluble | Solid | DI Leach | |
| 890-5712-14 | FS 13 | Soluble | Solid | DI Leach | |
| 890-5712-15 | FS 14 | Soluble | Solid | DI Leach | |
| 890-5712-16 | FS 17 | Soluble | Solid | DI Leach | |
| 890-5712-17 | FS 18 | Soluble | Solid | DI Leach | |
| 890-5712-18 | FS 19 | Soluble | Solid | DI Leach | |
| 890-5712-19 | FS 20 | Soluble | Solid | DI Leach | |
| 890-5712-20 | SW 05 | Soluble | Solid | DI Leach | |
| MB 880-68406/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-68406/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-68406/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5712-1 MS | FS 03 | Soluble | Solid | DI Leach | |
| 890-5712-1 MSD | FS 03 | Soluble | Solid | DI Leach | |
| 890-5712-11 MS | FS 10 | Soluble | Solid | DI Leach | |
| 890-5712-11 MSD | FS 10 | Soluble | Solid | DI Leach | |

Analysis Batch: 68428

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-21 | SW 06 | Soluble | Solid | 300.0 | 68405 |
| 890-5712-22 | FS 21 | Soluble | Solid | 300.0 | 68405 |
| 890-5712-23 | FS 22 | Soluble | Solid | 300.0 | 68405 |
| 890-5712-24 | FS 05 | Soluble | Solid | 300.0 | 68405 |
| 890-5712-25 | FS 08 | Soluble | Solid | 300.0 | 68405 |
| 890-5712-26 | SW 01 | Soluble | Solid | 300.0 | 68405 |
| MB 880-68405/1-A | Method Blank | Soluble | Solid | 300.0 | 68405 |
| LCS 880-68405/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 68405 |
| LCSD 880-68405/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 68405 |
| 890-5711-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 68405 |
| 890-5711-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 68405 |
| 890-5714-A-3-B MS | Matrix Spike | Soluble | Solid | 300.0 | 68405 |
| 890-5714-A-3-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 68405 |

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

HPLC/IC

Analysis Batch: 68442

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5712-1 | FS 03 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-2 | FS 04 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-3 | FS 07 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-4 | FS 09 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-5 | SW 04 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-6 | FS 06 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-7 | FS 15 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-8 | FS 16 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-9 | SW 02 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-10 | SW 03 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-11 | FS 10 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-12 | FS 11 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-13 | FS 12 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-14 | FS 13 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-15 | FS 14 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-16 | FS 17 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-17 | FS 18 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-18 | FS 19 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-19 | FS 20 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-20 | SW 05 | Soluble | Solid | 300.0 | 68406 |
| MB 880-68406/1-A | Method Blank | Soluble | Solid | 300.0 | 68406 |
| LCS 880-68406/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 68406 |
| LCSD 880-68406/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 68406 |
| 890-5712-1 MS | FS 03 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-1 MSD | FS 03 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-11 MS | FS 10 | Soluble | Solid | 300.0 | 68406 |
| 890-5712-11 MSD | FS 10 | Soluble | Solid | 300.0 | 68406 |

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 03

Lab Sample ID: 890-5712-1

Date Collected: 11/27/23 10:30

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 19:47 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 19:47 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/05/23 17:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 68386 | 12/05/23 12:10 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68368 | 12/05/23 17:47 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 68442 | 12/05/23 17:46 | CH | EET MID |

Client Sample ID: FS 04

Lab Sample ID: 890-5712-2

Date Collected: 11/27/23 10:35

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 20:13 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 20:13 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/05/23 18:09 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 68386 | 12/05/23 12:10 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68368 | 12/05/23 18:09 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68442 | 12/05/23 18:05 | CH | EET MID |

Client Sample ID: FS 07

Lab Sample ID: 890-5712-3

Date Collected: 11/27/23 13:50

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 20:40 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 20:40 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/05/23 18:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 68386 | 12/05/23 12:10 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68368 | 12/05/23 18:30 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:12 | CH | EET MID |

Client Sample ID: FS 09

Lab Sample ID: 890-5712-4

Date Collected: 11/27/23 13:55

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 21:07 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 21:07 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 09
Date Collected: 11/27/23 13:55
Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-4
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 | | | 68511 | 12/06/23 12:21 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 12:21 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:18 | CH | EET MID |

Client Sample ID: SW 04
Date Collected: 11/28/23 10:20
Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-5
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 | | | 5.05 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 21:34 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 21:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 13:26 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 13:26 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:25 | CH | EET MID |

Client Sample ID: FS 06
Date Collected: 11/28/23 10:25
Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-6
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 | | | 5.03 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 22:00 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 22:00 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 13:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 13:47 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:45 | CH | EET MID |

Client Sample ID: FS 15
Date Collected: 11/28/23 10:30
Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-7
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 22:26 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 22:26 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 14:09 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 14:09 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 15

Date Collected: 11/28/23 10:30

Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-7

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 | | | 5.03 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:51 | CH | EET MID |

Client Sample ID: FS 16

Date Collected: 11/28/23 10:35

Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-8

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 | | | 4.99 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 22:52 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 22:52 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 14:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 14:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 18:58 | CH | EET MID |

Client Sample ID: SW 02

Date Collected: 11/29/23 10:15

Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-9

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 | | | 5.02 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 23:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 23:17 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 14:53 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 14:53 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 19:04 | CH | EET MID |

Client Sample ID: SW 03

Date Collected: 11/29/23 10:30

Date Received: 12/04/23 08:17

Lab Sample ID: 890-5712-10

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 | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/09/23 23:42 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/09/23 23:42 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 15:15 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.97 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 15:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 19:11 | CH | EET MID |

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 10

Lab Sample ID: 890-5712-11

Date Collected: 12/01/23 09:00

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 01:25 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 01:25 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 15:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.95 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 15:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 19:17 | CH | EET MID |

Client Sample ID: FS 11

Lab Sample ID: 890-5712-12

Date Collected: 12/01/23 09:05

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 01:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 01:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 15:59 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 15:59 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 19:37 | CH | EET MID |

Client Sample ID: FS 12

Lab Sample ID: 890-5712-13

Date Collected: 12/01/23 09:10

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 02:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 02:16 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 16:21 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 16:21 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 19:43 | CH | EET MID |

Client Sample ID: FS 13

Lab Sample ID: 890-5712-14

Date Collected: 12/01/23 09:15

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 02:42 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 02:42 | SM | EET MID |

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Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 13

Lab Sample ID: 890-5712-14

Date Collected: 12/01/23 09:15

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | | | 68511 | 12/06/23 17:06 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 17:06 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 20:03 | CH | EET MID |

Client Sample ID: FS 14

Lab Sample ID: 890-5712-15

Date Collected: 12/01/23 09:20

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 03:07 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 03:07 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 17:28 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 17:28 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68442 | 12/05/23 20:10 | CH | EET MID |

Client Sample ID: FS 17

Lab Sample ID: 890-5712-16

Date Collected: 12/01/23 09:25

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 03:33 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 03:33 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 17:49 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 17:49 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68442 | 12/05/23 20:16 | CH | EET MID |

Client Sample ID: FS 18

Lab Sample ID: 890-5712-17

Date Collected: 12/01/23 09:30

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 03:59 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 03:59 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 18:10 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 18:10 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 18**Lab Sample ID: 890-5712-17****Date Collected: 12/01/23 09:30****Matrix: Solid****Date Received: 12/04/23 08:17**

| 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 | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68442 | 12/05/23 20:23 | CH | EET MID |

Client Sample ID: FS 19**Lab Sample ID: 890-5712-18****Date Collected: 12/01/23 09:35****Matrix: Solid****Date Received: 12/04/23 08:17**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 04:24 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 04:24 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 18:31 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 18:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68442 | 12/05/23 20:29 | CH | EET MID |

Client Sample ID: FS 20**Lab Sample ID: 890-5712-19****Date Collected: 12/01/23 09:40****Matrix: Solid****Date Received: 12/04/23 08:17**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 04:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 04:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 18:54 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 18:54 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 68442 | 12/05/23 20:36 | CH | EET MID |

Client Sample ID: SW 05**Lab Sample ID: 890-5712-20****Date Collected: 12/01/23 11:45****Matrix: Solid****Date Received: 12/04/23 08:17**

| 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 | 68401 | 12/05/23 10:27 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68650 | 12/10/23 05:16 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 05:16 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 19:15 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 19:15 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 68406 | 12/05/23 11:16 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68442 | 12/05/23 20:42 | CH | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: SW 06

Lab Sample ID: 890-5712-21

Date Collected: 12/01/23 14:25

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 00:08 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 00:08 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 19:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.95 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 19:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68428 | 12/05/23 20:29 | CH | EET MID |

Client Sample ID: FS 21

Lab Sample ID: 890-5712-22

Date Collected: 12/01/23 14:55

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 00:29 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 00:29 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 19:59 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 19:59 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68428 | 12/05/23 20:35 | CH | EET MID |

Client Sample ID: FS 22

Lab Sample ID: 890-5712-23

Date Collected: 12/01/23 15:00

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 00:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 00:49 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/06/23 20:21 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 68410 | 12/05/23 12:25 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68448 | 12/06/23 20:21 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68428 | 12/05/23 20:41 | CH | EET MID |

Client Sample ID: FS 05

Lab Sample ID: 890-5712-24

Date Collected: 12/01/23 15:15

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 01:09 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 01:09 | SM | EET MID |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

Client Sample ID: FS 05

Lab Sample ID: 890-5712-24

Date Collected: 12/01/23 15:15

Matrix: Solid

Date Received: 12/04/23 08:17

| 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 | | | 68511 | 12/07/23 10:24 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.99 g | 10 mL | 68547 | 12/06/23 17:12 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68559 | 12/07/23 10:24 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68428 | 12/05/23 20:58 | CH | EET MID |

Client Sample ID: FS 08

Lab Sample ID: 890-5712-25

Date Collected: 12/01/23 15:20

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 01:30 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 01:30 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/07/23 11:29 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 68547 | 12/06/23 17:12 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68559 | 12/07/23 11:29 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 68428 | 12/05/23 21:03 | CH | EET MID |

Client Sample ID: SW 01

Lab Sample ID: 890-5712-26

Date Collected: 12/01/23 15:10

Matrix: Solid

Date Received: 12/04/23 08:17

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 68391 | 12/05/23 12:45 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68741 | 12/10/23 01:50 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68485 | 12/10/23 01:50 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68511 | 12/07/23 11:51 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 68547 | 12/06/23 17:12 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68559 | 12/07/23 11:51 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 68405 | 12/05/23 11:13 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 68428 | 12/05/23 21:09 | CH | EET MID |

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

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 | T104704400-23-26 | 06-30-24 |
| 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 PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

| 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 PC17 Fed SW 0001

Job ID: 890-5712-1
SDG: 03C1558087

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-5712-1 | FS 03 | Solid | 11/27/23 10:30 | 12/04/23 08:17 |
| 890-5712-2 | FS 04 | Solid | 11/27/23 10:35 | 12/04/23 08:17 |
| 890-5712-3 | FS 07 | Solid | 11/27/23 13:50 | 12/04/23 08:17 |
| 890-5712-4 | FS 09 | Solid | 11/27/23 13:55 | 12/04/23 08:17 |
| 890-5712-5 | SW 04 | Solid | 11/28/23 10:20 | 12/04/23 08:17 |
| 890-5712-6 | FS 06 | Solid | 11/28/23 10:25 | 12/04/23 08:17 |
| 890-5712-7 | FS 15 | Solid | 11/28/23 10:30 | 12/04/23 08:17 |
| 890-5712-8 | FS 16 | Solid | 11/28/23 10:35 | 12/04/23 08:17 |
| 890-5712-9 | SW 02 | Solid | 11/29/23 10:15 | 12/04/23 08:17 |
| 890-5712-10 | SW 03 | Solid | 11/29/23 10:30 | 12/04/23 08:17 |
| 890-5712-11 | FS 10 | Solid | 12/01/23 09:00 | 12/04/23 08:17 |
| 890-5712-12 | FS 11 | Solid | 12/01/23 09:05 | 12/04/23 08:17 |
| 890-5712-13 | FS 12 | Solid | 12/01/23 09:10 | 12/04/23 08:17 |
| 890-5712-14 | FS 13 | Solid | 12/01/23 09:15 | 12/04/23 08:17 |
| 890-5712-15 | FS 14 | Solid | 12/01/23 09:20 | 12/04/23 08:17 |
| 890-5712-16 | FS 17 | Solid | 12/01/23 09:25 | 12/04/23 08:17 |
| 890-5712-17 | FS 18 | Solid | 12/01/23 09:30 | 12/04/23 08:17 |
| 890-5712-18 | FS 19 | Solid | 12/01/23 09:35 | 12/04/23 08:17 |
| 890-5712-19 | FS 20 | Solid | 12/01/23 09:40 | 12/04/23 08:17 |
| 890-5712-20 | SW 05 | Solid | 12/01/23 11:45 | 12/04/23 08:17 |
| 890-5712-21 | SW 06 | Solid | 12/01/23 14:25 | 12/04/23 08:17 |
| 890-5712-22 | FS 21 | Solid | 12/01/23 14:55 | 12/04/23 08:17 |
| 890-5712-23 | FS 22 | Solid | 12/01/23 15:00 | 12/04/23 08:17 |
| 890-5712-24 | FS 05 | Solid | 12/01/23 15:15 | 12/04/23 08:17 |
| 890-5712-25 | FS 08 | Solid | 12/01/23 15:20 | 12/04/23 08:17 |
| 890-5712-26 | SW 01 | Solid | 12/01/23 15:10 | 12/04/23 08:17 |

Chain of Custody



Environment Testing

Xenco

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 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 1 of 3

| | | | |
|------------------|-------------------------|-------------------------|---------------------|
| Project Manager: | Ben Bejill | Bill to: (if different) | Garrett Green |
| Company Name: | Enidum LLC | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 304 E. Greenest |
| City, State ZIP: | Carlsbad, NM, 88220 | City, State ZIP: | Carlsbad, NM, 88220 |
| Phone: | 505-354-0852 | Email: | BBejill@enidum.com |

| | | | | | |
|-------------------|----------------------|---|---|------------|--|
| Project Name: | PLUPC17 Fels, 10001 | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 0361596087 | | | | |
| Project Location: | 32.126085-103.901806 | Due Date: | | | |
| Sampler's Name: | Erica Huelveng | TAT starts the day received by the lab, if received by 4:30pm | | | |
| PO #: | | | | | |



890-5712 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Pres. Code | ANALYSIS REQUEST | Preservative Codes |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------|------------------|---|
| FS03 | S | 11/27/23 | 10:30 | 24" | C | 1 | X | | | None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC |
| FS04 | | 11/27/23 | 10:35 | 24" | | 1 | X | | | |
| FS07 | | 11/27/23 | 13:50 | 34" | | 1 | | | | |
| FS09 | | 11/27/23 | 13:55 | 34" | | 1 | | | | |
| SW01 | | 11/28/23 | 10:20 | 0-34" | | 1 | | | | |
| FS06 | | 11/28/23 | 10:25 | 34" | | 1 | | | | |
| FS15 | | 11/28/23 | 10:30 | 34" | | 1 | | | | |
| FS16 | | 11/28/23 | 10:35 | 34" | | 1 | | | | |
| SW02 | | 11/29/23 | 10:15 | 0-34" | | 1 | | | | |
| SW03 | V | 11/29/23 | 10:30 | 0-34" | | 1 | | | | |

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

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| 1. <i>[Signature]</i> | <i>meades</i> | 12/14/23 0750 | 2. <i>meades</i> | | |
| 3. <i>[Signature]</i> | | | 4. <i>[Signature]</i> | | |
| 5. <i>[Signature]</i> | | | 6. <i>[Signature]</i> | | |

Revised Date: 08/25/2020 Rev. 2020.2

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 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing

Xenco



Work Order No:

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

Project Manager: Ben Bell Bill to: (if different) Garrett Green
 Company Name: ENSOLUM LLC Company Name: XTO Energy
 Address: 3122 National Parks Hwy Address: 3104 E. Greene St
 City, State ZIP: Carlsbad, NM 88220 City, State ZIP: Carlsbad, NM 88220
 Phone: 989-854-0852 Email: BBell@ensolum.com

Project Name: PLP 17 Feds W/Pool Turn Around: ☒ Routine ☐ Rush
 Project Number: 03C1559087
 Project Location: 32-126085-103.904200 Due Date: 12/13/2020
 Sampler's Name: Sarah Welvang TAT starts the day received by the lab, if received by 4:30pm
 PO #: 17017

Temp Blank: Yes ☐ No ☒ Wet Ice: Yes ☐ No ☒
 Samples Received Intact: Yes ☐ No ☒ Thermometer ID: 17017
 Cooler Custody Seals: Yes ☐ No ☒ Correction Factor: 1.0
 Sample Custody Seals: Yes ☐ No ☒ Temperature Reading: 17.0
 Total Containers: 1 Corrected Temperature: 17.0

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Pres. Code | ANALYSIS REQUEST | Preservative Codes | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------|------------------|--|---|
| ES 10 | S | 12/10/20 | 9:00 | 44C | ✓ | 1 | TH | | | None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SPC | Incident # NH0226839215 Cost Center 1006741001 |
| ES 11 | | | 9:05 | | | | | | | | |
| ES 12 | | | 9:10 | | | | | | | | |
| ES 13 | | | 9:15 | | | | | | | | |
| ES 14 | | | 9:20 | | | | | | | | |
| ES 17 | | | 9:25 | | | | | | | | |
| ES 18 | | | 9:30 | | | | | | | | |
| ES 19 | | | 9:35 | | | | | | | | |
| ES 20 | | | 9:40 | | | | | | | | |
| SWOS | | | 11:45 | | | | | | | | |

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 SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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| Relinquished by (Signature) | Received by (Signature) | Date/Time | Relinquished by (Signature) | Received by (Signature) | Date/Time |
|-----------------------------|-------------------------|---------------|-----------------------------|-------------------------|-----------|
| <u>[Signature]</u> | <u>mealy</u> | 12/14/23 0750 | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody



Environment Testing

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| | | | | | |
|-------------------|-----------------------------------|------------------------------------|--------------------------------------|-------------------------------|------------------------------------|
| Program: | UST/PST <input type="checkbox"/> | PRP <input type="checkbox"/> | Brownfields <input type="checkbox"/> | RRC <input type="checkbox"/> | Superfund <input type="checkbox"/> |
| State of Project: | | | | | |
| Reporting: | Level II <input type="checkbox"/> | Level III <input type="checkbox"/> | PST/UST <input type="checkbox"/> | TTRP <input type="checkbox"/> | Level IV <input type="checkbox"/> |
| Deliverables: | EDD <input type="checkbox"/> | ADAPT <input type="checkbox"/> | Other: | | |

| | | | |
|------------------|----------------------------|-------------------------|--------------------|
| Project Manager: | Ben Belli | Bill to: (if different) | Garrett Green |
| Company Name: | ENSOLUM LLC | Company Name: | XTO Energy |
| Address: | 3122 National Park Highway | Address: | 3104 E. Greenest |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 989-354-0852 | Email: | BBelli@xenco.com |

| | | | | | |
|-------------------|-------------------|---|---|------------|--|
| Project Name: | PLUPC17 Fed 2000 | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 031558087 | | | | |
| Project Location: | 3212685-103101209 | Due Date: | | | |
| Sampler's Name: | Sarah W. Vane | TAT starts the day received by the lab, if received by 4:30pm | | | |
| P.O. #: | | | | | |

| | | | | | | |
|--------------------------|-------------|-----|------------------------|----------|-----|----|
| SAMPLE RECEIPT | Temp Blank: | Yes | No | Wet Ice: | Yes | No |
| Samples Received Intact: | Yes | No | Thermometer ID: | | | |
| Cooler Custody Seals: | Yes | No | Correction Factor: | | | |
| Sample Custody Seals: | Yes | No | Temperature Reading: | | | |
| Total Containers: | | | Corrected Temperature: | | | |

| | | | | | | | | |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------|
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Parameters | Pres. Code |
| JUN06 | S | 12/06/20 | 14:25 | 0.5ft | C | 1 | | |
| F5 2h | | | 14:55 | 4ft | | | | |
| F5 2h | | | 15:00 | 4ft | | | | |
| F5 05 | | | 15:15 | 4ft | | | | |
| F5 06 | | | 15:20 | 4ft | | | | |
| 2001 | | | 15:10 | 0.5ft | | | | |

| | | |
|--------------------|---|----------------------------|
| Preservative Codes | None: NO | DI Water: H ₂ O |
| | Cool: Cool | MeOH: Me |
| | HCL: HC | HNO ₃ : HN |
| | H ₂ SO ₄ : H ₂ | NaOH: Na |
| | H ₃ PO ₄ : HP | |
| | NaHSO ₄ : NABIS | |
| | Na ₂ S ₂ O ₅ : NaSO ₃ | |
| | Zn Acetate+NaOH: Zn | |
| | NaOH+Ascorbic Acid: SACP | |

| | |
|-----------------|----------------|
| Sample Comments | Incident # |
| | NAPP2216839215 |
| | Cost center |
| | 1090741001 |

| | | | |
|--|---|--------------------------------|---|
| Total 2007/6010 | 2008/6020: | 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 Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed | TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | Hg: 1631 / 245.1 / 7470 / 7471 | |

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

| | | | |
|------------------------------|--------------------------|------------------------------|--------------------------|
| Relinquished by: (Signature) | Received by: (Signature) | Relinquished by: (Signature) | Received by: (Signature) |
| | | | |
| Date/Time | Date/Time | Date/Time | Date/Time |
| 12/13/23 | 12/13/23 | 12/13/23 | 12/13/23 |

Revised Date: 09/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5712-1

SDG Number: 03C1558087

Login Number: 5712

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5712-1

SDG Number: 03C1558087

Login Number: 5712

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/05/23 11:35 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 | |



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/12/2024 9:50:22 AM

JOB DESCRIPTION

PLU PC 17 SWD 1

03C1558087

JOB NUMBER

890-6041-1

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
2/12/2024 9:50:22 AM

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

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Laboratory Job ID: 890-6041-1
SDG: 03C1558087

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *1 | LCS/LCSD RPD exceeds control limits. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| 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 PC 17 SWD 1

Job ID: 890-6041-1

Job ID: 890-6041-1

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Job Narrative 890-6041-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/26/2024 2:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW 07 (890-6041-1), FS 03A (890-6041-2) and FS 04A (890-6041-3).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 870-17905 and analytical batch 870-17969 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO).

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike duplicate recoveries are unavailable for preparation batch 870-17905 and analytical batch 870-17969. The associated laboratory control sample (LCS/LCSD) met acceptance criteria.

Method 8015MOD_NM: An incorrect volume of spiking solution was inadvertently added the following samples: (CCV 870-17969/164) and (CCV 870-17969/165). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-6038-A-1-K MS) and (890-6038-A-1-L MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: SW 07 (890-6041-1), FS 03A (890-6041-2), FS 04A (890-6041-3) and (890-6038-A-1-J). This sample did not contain any target analytes; 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.

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Client Sample ID: SW 07

Lab Sample ID: 890-6041-1

Date Collected: 01/26/24 11:20

Matrix: Solid

Date Received: 01/26/24 14:57

Sample Depth: 0 - 4'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:29 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 02/09/24 02:29 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 02/05/24 21:56 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO) | <50.5 | U *1 | 50.5 | mg/Kg | | 01/30/24 11:32 | 02/05/24 21:56 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 01/30/24 11:32 | 02/05/24 21:56 | 1 |
| Oil Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 01/30/24 11:32 | 02/05/24 21:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| o-Terphenyl | 140 | S1+ | 70 - 130 | 01/30/24 11:32 | 02/05/24 21:56 | 1 |
| 1-Chlorooctane | 125 | | 70 - 130 | 01/30/24 11:32 | 02/05/24 21:56 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 142 | | 4.96 | mg/Kg | | | 02/03/24 15:52 | 1 |

Client Sample ID: FS 03A

Lab Sample ID: 890-6041-2

Date Collected: 01/26/24 10:25

Matrix: Solid

Date Received: 01/26/24 14:57

Sample Depth: 4'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| m-Xylene & p-Xylene | <0.00397 | U | 0.00397 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:49 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Client Sample ID: FS 03A

Lab Sample ID: 890-6041-2

Date Collected: 01/26/24 10:25

Matrix: Solid

Date Received: 01/26/24 14:57

Sample Depth: 4'

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 | | | 02/09/24 02:49 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 02/05/24 22:17 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO) | <50.4 | U *1 | 50.4 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:17 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:17 | 1 |
| Oil Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>o</i> -Terphenyl | 140 | S1+ | 70 - 130 | 01/30/24 11:32 | 02/05/24 22:17 | 1 |
| 1-Chlorooctane | 123 | | 70 - 130 | 01/30/24 11:32 | 02/05/24 22:17 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 111 | | 4.99 | mg/Kg | | | 02/03/24 16:12 | 1 |

Client Sample ID: FS 04A

Lab Sample ID: 890-6041-3

Date Collected: 01/26/24 11:00

Matrix: Solid

Date Received: 01/26/24 14:57

Sample Depth: 4'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 02/06/24 13:15 | 02/09/24 03:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 03:10 | 1 |
| 1,4-Difluorobenzene (Surr) | 107 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 03:10 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 02/09/24 03:10 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 02/05/24 22:37 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO) | <49.6 | U *1 | 49.6 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:37 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Client Sample ID: FS 04A
Date Collected: 01/26/24 11:00
Date Received: 01/26/24 14:57
Sample Depth: 4'

Lab Sample ID: 890-6041-3
Matrix: Solid

| Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) | | | | | | | | | |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:37 | 1 | |
| Oil Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 01/30/24 11:32 | 02/05/24 22:37 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| o-Terphenyl | 167 | S1+ | 70 - 130 | | | 01/30/24 11:32 | 02/05/24 22:37 | 1 | |
| 1-Chlorooctane | 148 | S1+ | 70 - 130 | | | 01/30/24 11:32 | 02/05/24 22:37 | 1 | |
| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 98.7 | | 4.98 | mg/Kg | | | 02/03/24 16:19 | 1 | |

Surrogate Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|-----------------------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-6041-1 | SW 07 | 92 | 100 |
| 890-6041-1 MS | SW 07 | 112 | 102 |
| 890-6041-1 MSD | SW 07 | 112 | 88 |
| 890-6041-2 | FS 03A | 118 | 112 |
| 890-6041-3 | FS 04A | 113 | 107 |
| LCS 880-72500/1-A | Lab Control Sample | 113 | 96 |
| LCSD 880-72500/2-A | Lab Control Sample Dup | 97 | 104 |
| MB 880-72500/5-A | Method Blank | 118 | 118 |
| MB 880-72659/5-A | Method Blank | 119 | 113 |
| 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 | OTPH1 (70-130) | 1CO1 (70-130) |
| 890-6038-A-1-K MS | Matrix Spike | 139 S1+ | 127 |
| 890-6038-A-1-L MSD | Matrix Spike Duplicate | 146 S1+ | 128 |
| 890-6041-1 | SW 07 | 140 S1+ | 125 |
| 890-6041-2 | FS 03A | 140 S1+ | 123 |
| 890-6041-3 | FS 04A | 167 S1+ | 148 S1+ |
| LCS 870-17905/1-A | Lab Control Sample | 125 | 108 |
| LCSD 870-17905/2-A | Lab Control Sample Dup | 126 | 112 |
| MB 870-17905/3-A | Method Blank | 128 | 122 |
| Surrogate Legend | | | |
| OTPH = o-Terphenyl | | | |
| 1CO = 1-Chlorooctane | | | |

QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72500/5-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/06/24 13:15 | 02/09/24 02:00 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | 02/06/24 13:15 | 02/09/24 02:00 | 1 |

Lab Sample ID: LCS 880-72500/1-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene | 0.100 | 0.08736 | | mg/Kg | | 87 | 70 - 130 |
| Toluene | 0.100 | 0.08524 | | mg/Kg | | 85 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1063 | | mg/Kg | | 106 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2050 | | mg/Kg | | 103 | 70 - 130 |
| o-Xylene | 0.100 | 0.1026 | | mg/Kg | | 103 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 113 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

Lab Sample ID: LCSD 880-72500/2-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene | 0.100 | 0.09523 | | mg/Kg | | 95 | 70 - 130 | 9 | 35 |
| Toluene | 0.100 | 0.09338 | | mg/Kg | | 93 | 70 - 130 | 9 | 35 |
| Ethylbenzene | 0.100 | 0.1024 | | mg/Kg | | 102 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1896 | | mg/Kg | | 95 | 70 - 130 | 8 | 35 |
| o-Xylene | 0.100 | 0.09424 | | mg/Kg | | 94 | 70 - 130 | 9 | 35 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 890-6041-1 MS

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: SW 07

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene | <0.00199 | U | 0.101 | 0.08996 | | mg/Kg | | 89 | 70 - 130 |
| Toluene | <0.00199 | U | 0.101 | 0.08962 | | mg/Kg | | 89 | 70 - 130 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

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

Lab Sample ID: 890-6041-1 MS

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: SW 07

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene | <0.00199 | U | 0.101 | 0.1020 | | mg/Kg | | 101 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.202 | 0.1995 | | mg/Kg | | 99 | 70 - 130 |
| o-Xylene | <0.00199 | U | 0.101 | 0.09814 | | mg/Kg | | 97 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: 890-6041-1 MSD

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: SW 07

Prep Type: Total/NA

Prep Batch: 72500

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00199 | U | 0.100 | 0.08024 | | mg/Kg | | 80 | 70 - 130 | 11 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.09215 | | mg/Kg | | 92 | 70 - 130 | 3 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.1045 | | mg/Kg | | 104 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.1995 | | mg/Kg | | 100 | 70 - 130 | 0 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.09761 | | mg/Kg | | 97 | 70 - 130 | 1 | 35 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 |

Lab Sample ID: MB 880-72659/5-A

Matrix: Solid

Analysis Batch: 72586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72659

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 02/08/24 13:05 | 02/08/24 14:24 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 119 | | 70 - 130 | 02/08/24 13:05 | 02/08/24 14:24 | 1 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | 02/08/24 13:05 | 02/08/24 14:24 | 1 |

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

Lab Sample ID: MB 870-17905/3-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|--------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO) | <50.0 | U | 50.0 | mg/Kg | | 01/30/24 11:32 | 02/05/24 15:43 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

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

Lab Sample ID: MB 870-17905/3-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 01/30/24 11:32 | 02/05/24 15:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 01/30/24 11:32 | 02/05/24 15:43 | 1 |
| Surrogate | MB | MB | Limits | | | Prepared | Analyzed | Dil Fac |
| | %Recovery | Qualifier | | | | | | |
| o-Terphenyl | 128 | | 70 - 130 | | | 01/30/24 11:32 | 02/05/24 15:43 | 1 |
| 1-Chlorooctane | 122 | | 70 - 130 | | | 01/30/24 11:32 | 02/05/24 15:43 | 1 |

Lab Sample ID: LCS 870-17905/1-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits | |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|--|
| | | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO) | 1020 | 1174 | | mg/Kg | | 115 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1010 | 1217 | | mg/Kg | | 120 | 70 - 130 | |
| Surrogate | | LCS | LCS | | | | Limits | |
| | | %Recovery | Qualifier | | | | | |
| o-Terphenyl | | 125 | | | | | 70 - 130 | |
| 1-Chlorooctane | | 108 | | | | | 70 - 130 | |

Lab Sample ID: LCSD 870-17905/2-A

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | Spike Added | LCSD | LCSD | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|-----|-----------|
| | | Result | Qualifier | | | | | | |
| Gasoline Range Organics (GRO) | 1020 | 906.0 | *1 | mg/Kg | | 89 | 70 - 130 | 26 | 20 |
| Diesel Range Organics (Over C10-C28) | 1010 | 1213 | | mg/Kg | | 120 | 70 - 130 | 0 | 20 |
| Surrogate | | LCSD | LCSD | | | | Limits | | |
| | | %Recovery | Qualifier | | | | | | |
| o-Terphenyl | | 126 | | | | | 70 - 130 | | |
| 1-Chlorooctane | | 112 | | | | | 70 - 130 | | |

Lab Sample ID: 890-6038-A-1-K MS

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | Sample | Sample | Spike Added | MS | MS | Unit | D | %Rec | %Rec Limits | |
|--------------------------------------|-----------|-----------|-------------|--------|-----------|-------|---|------|-------------|--|
| | Result | Qualifier | | Result | Qualifier | | | | | |
| Gasoline Range Organics (GRO) | <49.9 | U *1 F1 | 1020 | 1169 | | mg/Kg | | 114 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 55.5 | F1 F2 | 1010 | 1263 | | mg/Kg | | 119 | 70 - 130 | |
| Surrogate | MS | MS | Limits | | | | | | | |
| | %Recovery | Qualifier | | | | | | | | |
| o-Terphenyl | 139 | S1+ | 70 - 130 | | | | | | | |
| 1-Chlorooctane | 127 | | 70 - 130 | | | | | | | |

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QC Sample Results

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

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

Lab Sample ID: 890-6038-A-1-L MSD

Matrix: Solid

Analysis Batch: 17969

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17905

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO) | <49.9 | U *1 F1 | 1020 | <50.2 | U F1 | mg/Kg | | 0 | 70 - 130 | NC | 20 |
| Diesel Range Organics (Over C10-C28) | 55.5 | F1 F2 | 1010 | <50.2 | U F1 F2 | mg/Kg | | -2 | 70 - 130 | 190 | 20 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| o-Terphenyl | 146 | S1+ | 70 - 130 | | | | | | | | |
| 1-Chlorooctane | 128 | | 70 - 130 | | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71956/1-A

Matrix: Solid

Analysis Batch: 72172

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 02/03/24 15:31 | 1 |

Lab Sample ID: LCS 880-71956/2-A

Matrix: Solid

Analysis Batch: 72172

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 273.0 | | mg/Kg | | 109 | 90 - 110 |

Lab Sample ID: LCSD 880-71956/3-A

Matrix: Solid

Analysis Batch: 72172

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 | 266.7 | | mg/Kg | | 107 | 90 - 110 | 2 | 20 |

Lab Sample ID: 890-6041-1 MS

Matrix: Solid

Analysis Batch: 72172

Client Sample ID: SW 07

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 142 | | 248 | 404.5 | | mg/Kg | | 106 | 90 - 110 |

Lab Sample ID: 890-6041-1 MSD

Matrix: Solid

Analysis Batch: 72172

Client Sample ID: SW 07

Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 142 | | 248 | 402.1 | | mg/Kg | | 105 | 90 - 110 | 1 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

GC VOA

Prep Batch: 72500

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | 5035 | |
| 890-6041-2 | FS 03A | Total/NA | Solid | 5035 | |
| 890-6041-3 | FS 04A | Total/NA | Solid | 5035 | |
| MB 880-72500/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-72500/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-72500/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-6041-1 MS | SW 07 | Total/NA | Solid | 5035 | |
| 890-6041-1 MSD | SW 07 | Total/NA | Solid | 5035 | |

Analysis Batch: 72586

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | 8021B | 72500 |
| 890-6041-2 | FS 03A | Total/NA | Solid | 8021B | 72500 |
| 890-6041-3 | FS 04A | Total/NA | Solid | 8021B | 72500 |
| MB 880-72500/5-A | Method Blank | Total/NA | Solid | 8021B | 72500 |
| MB 880-72659/5-A | Method Blank | Total/NA | Solid | 8021B | 72659 |
| LCS 880-72500/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 72500 |
| LCSD 880-72500/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 72500 |
| 890-6041-1 MS | SW 07 | Total/NA | Solid | 8021B | 72500 |
| 890-6041-1 MSD | SW 07 | Total/NA | Solid | 8021B | 72500 |

Prep Batch: 72659

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-72659/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 72718

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | Total BTEX | |
| 890-6041-2 | FS 03A | Total/NA | Solid | Total BTEX | |
| 890-6041-3 | FS 04A | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 17905

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | 8015NM Prep | |
| 890-6041-2 | FS 03A | Total/NA | Solid | 8015NM Prep | |
| 890-6041-3 | FS 04A | Total/NA | Solid | 8015NM Prep | |
| MB 870-17905/3-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 870-17905/1-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 870-17905/2-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-6038-A-1-K MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-6038-A-1-L MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 17969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | 8015B NM | 17905 |
| 890-6041-2 | FS 03A | Total/NA | Solid | 8015B NM | 17905 |
| 890-6041-3 | FS 04A | Total/NA | Solid | 8015B NM | 17905 |
| MB 870-17905/3-A | Method Blank | Total/NA | Solid | 8015B NM | 17905 |
| LCS 870-17905/1-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 17905 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

GC Semi VOA (Continued)

Analysis Batch: 17969 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCSD 870-17905/2-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 17905 |
| 890-6038-A-1-K MS | Matrix Spike | Total/NA | Solid | 8015B NM | 17905 |
| 890-6038-A-1-L MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 17905 |

Analysis Batch: 17983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6041-1 | SW 07 | Total/NA | Solid | 8015 NM | |
| 890-6041-2 | FS 03A | Total/NA | Solid | 8015 NM | |
| 890-6041-3 | FS 04A | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 71956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-6041-1 | SW 07 | Soluble | Solid | DI Leach | |
| 890-6041-2 | FS 03A | Soluble | Solid | DI Leach | |
| 890-6041-3 | FS 04A | Soluble | Solid | DI Leach | |
| MB 880-71956/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-71956/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-71956/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-6041-1 MS | SW 07 | Soluble | Solid | DI Leach | |
| 890-6041-1 MSD | SW 07 | Soluble | Solid | DI Leach | |

Analysis Batch: 72172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6041-1 | SW 07 | Soluble | Solid | 300.0 | 71956 |
| 890-6041-2 | FS 03A | Soluble | Solid | 300.0 | 71956 |
| 890-6041-3 | FS 04A | Soluble | Solid | 300.0 | 71956 |
| MB 880-71956/1-A | Method Blank | Soluble | Solid | 300.0 | 71956 |
| LCS 880-71956/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 71956 |
| LCSD 880-71956/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 71956 |
| 890-6041-1 MS | SW 07 | Soluble | Solid | 300.0 | 71956 |
| 890-6041-1 MSD | SW 07 | Soluble | Solid | 300.0 | 71956 |

Lab Chronicle

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Client Sample ID: SW 07
Date Collected: 01/26/24 11:20
Date Received: 01/26/24 14:57

Lab Sample ID: 890-6041-1
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 | | | 5.03 g | 5 mL | 72500 | 02/06/24 13:15 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 72586 | 02/09/24 02:29 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 72718 | 02/09/24 02:29 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17983 | 02/05/24 21:56 | CC | EET DAL |
| Total/NA | Prep | 8015NM Prep | | | 9.91 g | 10 mL | 17905 | 01/30/24 11:32 | WP | EET DAL |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 17969 | 02/05/24 21:56 | WP | EET DAL |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 71956 | 01/30/24 14:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 72172 | 02/03/24 15:52 | CH | EET MID |

Client Sample ID: FS 03A
Date Collected: 01/26/24 10:25
Date Received: 01/26/24 14:57

Lab Sample ID: 890-6041-2
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 | 72500 | 02/06/24 13:15 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 72586 | 02/09/24 02:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 72718 | 02/09/24 02:49 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17983 | 02/05/24 22:17 | CC | EET DAL |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 17905 | 01/30/24 11:32 | WP | EET DAL |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 17969 | 02/05/24 22:17 | WP | EET DAL |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 71956 | 01/30/24 14:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 72172 | 02/03/24 16:12 | CH | EET MID |

Client Sample ID: FS 04A
Date Collected: 01/26/24 11:00
Date Received: 01/26/24 14:57

Lab Sample ID: 890-6041-3
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 | | | 4.98 g | 5 mL | 72500 | 02/06/24 13:15 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 72586 | 02/09/24 03:10 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 72718 | 02/09/24 03:10 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 17983 | 02/05/24 22:37 | CC | EET DAL |
| Total/NA | Prep | 8015NM Prep | | | 10.08 g | 10 mL | 17905 | 01/30/24 11:32 | WP | EET DAL |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 17969 | 02/05/24 22:37 | WP | EET DAL |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 71956 | 01/30/24 14:18 | SMC | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 72172 | 02/03/24 16:19 | CH | EET MID |

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

Laboratory: Eurofins Dallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704295-23-34 | 06-30-24 |

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 | T104704400-23-26 | 06-30-24 |

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 |
|-----------------|-------------|--------|------------|
| Total BTEX | | Solid | Total BTEX |

Method Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

| 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 DAL |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET DAL |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET DAL |
| 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 DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: PLU PC 17 SWD 1

Job ID: 890-6041-1
SDG: 03C1558087

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|--------|
| 890-6041-1 | SW 07 | Solid | 01/26/24 11:20 | 01/26/24 14:57 | 0 - 4' |
| 890-6041-2 | FS 03A | Solid | 01/26/24 10:25 | 01/26/24 14:57 | 4' |
| 890-6041-3 | FS 04A | Solid | 01/26/24 11:00 | 01/26/24 14:57 | 4' |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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) 968-3199

Wo



890-6041 Chain of Custody

www.xenco.com Page 1 of 1

| | | | |
|-------------------|-----------------------------|---|-----------------------------|
| Project Manager: | Ben Bellill | Bill to: (if different) | Garrett Green |
| Company Name: | Ensolum, LLC | Company Name: | XTO Energy |
| Address: | 3122 National Parks Hwy | Address: | 3104 E. Greene St |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (989) 854-0852 | Email: | Garrett.Green@xxtomobol.com |
| Project Name: | PLU PC 17 SMD 1 | Turn Around | |
| Project Number: | 03C1558087 | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | |
| Project Location: | 32-12593-103 9000 Due Date: | 5 days | |
| Sampler's Name: | Mariaba O'Dell | TAT starts the day received by the lab, if received by 4:30pm | |
| P.O. #: | | | |

| | | | |
|--------------------------|--|------------------------|--------|
| SAMPLE RECEIPT | | | |
| Samples Received Intact: | Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Thermometer ID: | 710007 |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Temperature Reading: | 1.4 |
| Total Containers: | | Corrected Temperature: | 1.2 |

| | |
|---|----------------------------|
| ANALYSIS REQUEST | |
| Preservative Codes | |
| None: NO | DI Water: H ₂ O |
| Cool: Cool | MeOH: Me |
| HCL: HC | HNO ₃ : HN |
| H ₂ SO ₄ : H ₂ | NaOH: Na |
| H ₃ PO ₄ : HP | |
| NaHSO ₄ : NABIS | |
| Na ₂ S ₂ O ₃ : NaSO ₃ | |
| Zn Acetate+NaOH: Zn | |
| NaOH+Ascorbic Acid+SAFC | |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Chlorides | BTEX | TH |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|-----------|------|----|
| SW01 | S | 1/20/24 | 11:20 | 0-4' | C | 1 | X | X | X |
| ES03A | S | 1/20/24 | 10:25 | 4' | C | 1 | X | X | X |
| FS04A | S | 1/20/24 | 11:00 | 4' | C | 1 | X | X | X |

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 SiO₂ Na Sr Ti Sn U V Zn

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

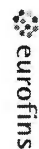
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume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

| | | | | | |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| M. O'Dell | B. Green | 1/20/24 14:57 | | | |

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

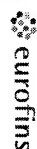
Chain of Custody Record



Environment Testing

[illegible]

Chain of Custody Record



Environmental Testing

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6041-1

SDG Number: 03C1558087

Login Number: 6041

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: 890-6041-1

SDG Number: 03C1558087

Login Number: 6041

List Source: Eurofins Dallas

List Number: 3

List Creation: 02/03/24 01:45 PM

Creator: Thompson, Christopher

| 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? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6041-1

SDG Number: 03C1558087

Login Number: 6041

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/30/24 10:34 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 | |



APPENDIX E

NMOCD Notifications



FW: XTO - Sampling Notification (Week of 11/27/23 - 12/1/23)

From Green, Garrett J <garrett.green@exxonmobil.com>

Date Wed 11/22/2023 11:11 AM

To Ben Belill <bbelill@ensolum.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Wes Weichert <wweichert@ensolum.com>

[**EXTERNAL EMAIL**]

From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Wednesday, November 22, 2023 7:28 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; eco@slo.state.nm.us

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>

Subject: XTO - Sampling Notification (Week of 11/27/23 - 12/1/23)

XTO plans to complete final sampling activities at the sites listed below for the week of November 27, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

| | |
|------------------------------------|-------------------------------|
| Site Name | PLU PC 17 SWD |
| Location | N-17-25S-30E; Eddy County, NM |
| Incident ID | nAPP2216839215 |
| Source & Description of Activities | Soil Sampling |
| Expected Duration for Activities | 3 Days (11.27.23-11.30.23) |
| Env Consultant | Ensolum |
| Contractor | Tex Mex |
| Sampling Notification Required | Yes |
| Surface Owner | BLM |

| | |
|------------------------------------|------------------------------|
| Site Name | ADU 816 |
| Location | A-5-21S-27E; Eddy County, NM |
| Incident ID | NAB1435334641 |
| Source & Description of Activities | Groundwater Sampling |
| Expected Duration for Activities | 2 Days (11.30.23-12.1.23) |
| Env Consultant | Ensolum |

| | |
|--------------------------------|-----|
| Contractor | NA |
| Sampling Notification Required | Yes |
| Surface Owner | BLM |

| | |
|------------------------------------|-------------------------------|
| Site Name | Nash Unit #046H |
| Location | C-18-23S-30E; Eddy County, NM |
| Incident ID | NAB1821139914 |
| Source & Description of Activities | Soil Sampling |
| Expected Duration for Activities | 2 Days (11.28.23-11.29.23) |
| Env Consultant | Ensolum |
| Contractor | Tex Mex |
| Sampling Notification Required | Yes |
| Surface Owner | SLO |

| | |
|------------------------------------|-------------------------------|
| Site Name | Remuda Basin 1 |
| Location | J-24-23S-29E; Eddy County, NM |
| Incident ID | NAB1836137253 |
| Source & Description of Activities | Soil Sampling |
| Expected Duration for Activities | 5 Days (11.27.23-12.1.23) |
| Env Consultant | Ensolum |
| Contractor | Tex Mex |
| Sampling Notification Required | Yes |
| Surface Owner | SLO |

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



APPENDIX E

NMOCD Notifications

From: [Tacoma Morrissey](#)
To: garrett.green@exxonmobil.com; [Collins, Melanie](#)
Cc: DelawareSpills@exxonmobil.com; [Ashley Ager](#); [Ben Belill](#); [Kalei Jennings](#); [Stuart Hyde](#)
Subject: RE: XTO - Sampling Notification (Week of 8/22/22 - 8/26/22)
Date: Wednesday, August 17, 2022 4:48:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hi Garrett,

Please see the below email for NMOCD sampling notification for the week of August 22, 2022.

All,

XTO plans to complete final sampling activities at the following sites the week of August 22, 2022.

Monday

- Corral Canyon Expansion/ NAPP2215951900

Tuesday

- Corral Canyon Expansion/ NAPP2215951900

Wednesday

- Corral Canyon Expansion/ NAPP2215951900
- PLU PC 17 SWD 1 / nAPP2216839215

Thursday

- PLU PC 17 SWD 1 / nAPP2216839215

Thank you,



Tacoma Morrissey

Senior Geologist

337-257-8307


Ensolum, LLC

in f 



APPENDIX B

Referenced Well Records

|  ENSOLUM | | Sample Name: BH01 | | Date: 8/08/2023 | | | | |
|--|----------------|---------------------------------|----------|------------------------|-----------------------|----------------|------------------|--|
| | | Site Name: PLU PC 17 BATTERY | | | | | | |
| | | Incident Number: nAPP2233951574 | | | | | | |
| | | Job Number: 03C1558215 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.123284, -103.897084 | | Logged By: M. O'Dell/S. Welvang | | Method: Air Rotary Rig | | | | |
| | | Hole Diameter: N/A | | Total Depth: 110' | | | | |
| Comments: No field screening was conducted. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | | |
| | | | | | | 10 | CCHE | 0-10'. Caliche w/sand. Tan to light brown, very fine to fine grained, well graded, subrounded to subangular grains, dry. |
| | | | | | | 20 | SW | 10-20'. Sand. Reddish brown, very fine to fine grained, subrounded to subangular grains, well graded, trace CCHE, dry. |
| | | | | | | 30 | SW | 20-30'. Sand w/CCHE mixture. Very fine to fine grained, CCHE medium to coarse grains, sand reddish brown, tan to light brown CCHE Well graded. |
| | | | | | | 40 | SC | 30-50'. Clayey sand w/ gravel. Brown, very fine to fine grained, gravel small grained, trace CCHE, dry. |
| | | | | | | 50 | | |
| | | | | | | 60 | SP | 50-80'. Sand, brown (trace red), very fine to fine grained, poorly graded, subrounded to subangular, dry. |
| | | | | | | 70 | | |
| | | | | | | 80 | | 80-90'. Sand. Yellowish tan, very fine to fine grained, poorly graded, trace silty, trace orange sand, trace CCHE, dry. |
| | | | | | | 90 | | 90'-110'. Sand. Brownish red, very fine to fine grained, poorly graded, subrounded to subangular, dry. |
| | | | | | | 100 | | |
| | | | | | | 110 | | 110': stopped drilling and set casing to 110'. |
| TD at 110' bgs. | | | | | | | | |

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

BENJAMIN BELILL
ENSOLUM, LLC
3122 NATIONAL PARKS HIGHWAY
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in black ink that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 749154
File Nbr: C 04758

Jul. 24, 2023

GARRETT GREEN
XTO ENERGY, INC.
3401 E GREENE ST
CARLSBAD, NM 88220

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

File No. C-4758



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: <http://www.ose.state.nm.us/>

| | | |
|---|--|--|
| Purpose: | <input type="checkbox"/> Pollution Control And/Or Recovery | <input type="checkbox"/> Ground Source Heat Pump |
| <input type="checkbox"/> Exploratory Well (Pump test) | <input type="checkbox"/> Construction Site/Public Works Dewatering | <input type="checkbox"/> Other(Describe): |
| <input checked="" type="checkbox"/> Monitoring Well | <input type="checkbox"/> Mine Dewatering | |

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 7/17/2023 Requested End Date: TBD

Plugging Plan of Operations Submitted? ☒ Yes ☐ No

1. APPLICANT(S)

| | |
|---|---|
| Name: XTO Energy, Inc | Name: Ensolum, LLC |
| Contact or Agent: check here if Agent <input type="checkbox"/> Garrett Green | Contact or Agent: check here if Agent <input checked="" type="checkbox"/> Benjamin Belill |
| Mailing Address: 3401 E. Greene Street | Mailing Address: 3122 National Parks Highway |
| City: Carlsbad | City: Carlsbad |
| State: New Mexico Zip Code: 88220 | State: New Mexico Zip Code: 88220 |
| Phone: 575-200-0729 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): | Phone: 989-854-0852 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work): |
| E-mail (optional): Garrett.Green@ExxonMobil.com | E-mail (optional): bbelill@ensolum.com |

OSE ON JUL 7 2023 AM 11:30

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 11/17/16

| | | |
|-----------------------------------|---------------------------|---------------------|
| File No.: C-4758 | Tm. No.: 749154 | Receipt No.: 245957 |
| Trans Description (optional): MON | | |
| Sub-Basin: CUB | PCW/LOG Due Date: 7-24-24 | |

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

| | | | |
|---|----------------------------|---|---|
| Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above. | | | |
| <input type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> UTM (NAD83) (Meters) <input checked="" type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second) <input type="checkbox"/> NM West Zone <input type="checkbox"/> Zone 12N <input type="checkbox"/> NM East Zone <input type="checkbox"/> Zone 13N <input type="checkbox"/> NM Central Zone | | | |
| Well Number (if known): | X or Easting or Longitude: | Y or Northing or Latitude: | Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name |
| C-4758 Pod 1 BH01 | -103.896478 | 32.123445 | Unit P, S17, T25S, R30E, Eddy County |
| | | | |
| | | | |
| | | | |
| | | | |
| NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions) Additional well descriptions are attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____ | | | |
| Other description relating well to common landmarks, streets, or other: Located on active well pad facility at the the Poker Lake Unit CVX JV RR #010H (32.123445,-103.896478). | | | |
| Well is on land owned by: Federal - Bureau of Land Management | | | |
| Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, how many _____ | | | |
| Approximate depth of well (feet): 110 | | Outside diameter of well casing (inches): 2 | |
| Driller Name: Scarborough Drilling | | Driller License Number: WD-1188 | |

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One soil boring to be advanced at the site to assess subsurface soil and regional groundwater depth. Temporary 2-inch inside diameter PVC well screen will be placed in open borehole to determine depth to water at the site. The borehole will be abandoned after 72 hours from the time the borehole is completed. The borehole location is depicted on the attached figure.

OSE 011 JUL 7 2023 AM 11:30

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4758

Trm No.: 749154

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4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

| | | | |
|---|--|--|--|
| Exploratory: <input type="checkbox"/> Include a description of any proposed pump test, if applicable. | Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. | Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation. <input type="checkbox"/> The estimated duration of the operation. <input type="checkbox"/> The maximum amount of water to be diverted. <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. | Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. |
| Monitoring: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring. | <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located. | Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request. | <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect. |

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Benjamin Belill

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Benjamin Belill Digitally signed by Benjamin Belill
Date: 2023.07.06 10:37:13 -04'00'

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 26th day of July 20 23, for the State Engineer,

OSE DT JUL 7 2023 AM 11:30

Mike A. Hamman, P.E.

State Engineer

By: K. Parekh
Signature

Kashyap Parekh
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: C-4758

Tm No.: 749154

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**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04758 POD1

File Number: C 04758

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**NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE**

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: C 04758 POD1

File Number: C 04758

Trn Number: 749154

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion C 04758 POD1 must be completed and the Well Log filed on or before 07/23/2024.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

| | |
|-------------------------------------|--------------------------|
| Notice of Intention Rcvd: | Date Rcvd. Corrected: |
| Formal Application Rcvd: 07/07/2023 | Pub. of Notice Ordered: |
| Date Returned - Correction: | Affidavit of Pub. Filed: |

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 24 day of Jul A.D., 2023

Mike A. Hamman, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH

Trn Desc: C 04758 POD1

File Number: C 04758
Trn Number: 749154

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STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

July 10, 2023

XTO Energy Inc.
3401 E. Greene Street
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4758-POD1

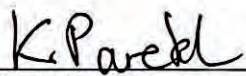
Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <https://www.ose.state.nm.us/Statewide/wdForms.php>.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,



Kashyap Parekh
Water Resources Manager I



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

ROSWELL

1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: XTO Energy Inc.
NMOSE Permit Number: C-4758-POD1

| NMOSE File | Casing diameter (inches) | Well depth (feet bgl) | Approximate static water level (feet bgl) | Latitude | Longitude |
|-------------|--------------------------|-----------------------|---|---------------|-----------------|
| C-4758-POD1 | 8.0 (Soil Boring) | 110 | Unknown | 32° 7' 24.40" | 103° 53' 47.32" |

Specific Plugging Conditions of Approval for Well located in Eddy County, New Mexico.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 287.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 26.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces

the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. and 4. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 10th day of July 2023

Mike A. Hamman, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I



2



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email ambg-waterlevels@amt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: TBD 2-6-258-POD

Name of well owner: XTO Energy Inc

Mailing address: 3401 E. Greene Street

County: Eddy

City: Carlsbad

State: New Mexico

Zip code: 88220

Phone number: 575-200-0729

E-mail: Garrett.Green@ExxonMobil.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Scarborough Drilling Inc

New Mexico Well Driller License No.: WD-1188

Expiration Date: 3/31/2024

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 7 min, 24.40 sec
Longitude: 103 deg, 53 min, 47.32 sec, NAD 83

2) Reason(s) for plugging well(s):

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Monitoring well to be plugged when no longer needed. Dry borehole will be plugged within 3 days of completion if encountered

3) Was well used for any type of monitoring program? No If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NA If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: NA feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Temporary SCH 40 PVC
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: NA
☐ a well screen or perforated pipe, state the screened interval(s): NA
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Temporary 2 inch well will be removed. If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged from 0 to 10 feet bgs with hydrated bentonite. If groundwater is encountered, borehole will be plugged, tremie pipe from the bottom upwards to a slurry of Type I/II neat cement.

- 2) Will well head be cut-off below land surface after plugging? YES

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 287 gallons(8 inch borehole)
- 4) Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: batch-mixed and delivered to the site
X mixed on site

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- 7) Grout additives requested, and percent by dry weight relative to cement:

NA

- 8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

NA

VIII. SIGNATURE:

I, Benjamin Belill, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Benjamin Belill

Digitally signed by Benjamin Belill
Date: 2023.07.06 10:36:39 -04'00'

Signature of Applicant

Date

05E DII JUL 7 2023 AM 11:30

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 10th day of July, 2023

Mike A. Hammon P.E., New Mexico State Engineer

By: K. Parekh
KASHYAP PAREKH
W. R. M. I



WD-08 Well Plugging Plan
Version: July 31, 2019
Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

| | Interval 1 – deepest | Interval 2 | Interval 3 – most shallow |
|---|----------------------|------------|--|
| | | | Note: if the well is non-artesian and breaches only one aquifer, use only this column. |
| Top of proposed interval of grout placement (ft bgl) | NA | NA | 0 |
| Bottom of proposed interval of grout placement (ft bgl) | NA | NA | 110 |
| Theoretical volume of grout required per interval (gallons) | NA | NA | 287 |
| Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement | NA | NA | <6.0 |
| Mixed on-site or batch-mixed and delivered? | NA | NA | onsite |
| Grout additive 1 requested | NA | NA | NA |
| Additive 1 percent by dry weight relative to cement | NA | NA | NA |
| Grout additive 2 requested | NA | NA | NA DSE DIT JUL 7 2023 11:30 |
| Additive 2 percent by dry weight relative to cement | NA | NA | NA |

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.





| | Interval 1 – deepest | Interval 2 | Interval 3 – most shallow |
|---|----------------------|------------|--|
| | | | Note: if the well is non-artesian and breaches only one aquifer, use only this column. |
| Top of proposed interval of sealant placement (ft bgl) | NA | NA | 0 |
| Bottom of proposed sealant of grout placement (ft bgl) | NA | NA | 10 |
| Theoretical volume of sealant required per interval (gallons) | NA | NA | 26 |
| Proposed abandonment sealant (manufacturer and trade name) | NA | NA | Bariod Hole Plug |

05E D11 JUL 7 2023 AM 11:31

**PLU PC 17 BATTERY,
PLU PC 17 SWD 1,
PLU CVX JV RR 006H,
PLU-CVX-JV-PC #001H
SWD Line**

32.123445, -103.896478
Surface Owner: BLM

Legend

-  0.5 Mile Radius
-  Proposed Soil Boring
-  Incident Sites
-  XTO Wells

PLU PC 17 SWD 1

Poker Lake Unit CVX JV RR 010H
Well Pad

PLU-CVX-JV-PC #001H SWD Line

PLU PC 17 BATTERY
Proposed Soil Boring

PLU CVX JV RR 006H

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Google Earth

Image © 2023 Maxar Technologies

Released to Imaging: 5/1/2025 2:11:31 PM

3000 ft

From: Green, Garrett J
To: Aimee Cole; Tacoma Morrissey; Kalei Jennings; Ben Belill
Cc: Baker, Adrian
Subject: NMOSE Permit Permission
Date: Wednesday, May 18, 2022 5:56:20 PM

[**EXTERNAL EMAIL**]

NMOSE,

The following Ensolum personnel have permission to submit and sign NMOSE well permitting documents on behalf of XTO Energy, Inc.

Ashley Ager
Aimee Cole
Tacoma Morrissey
Kalei Jennings
Ben Belill

Thank you,

Sent from my iPhone

OSE OIT JUL 7 2023 11:31



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)

July 3, 2023

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: Poker Lake Unit CVX JV RR 10H
30-015-42158
32.123445, -103.896478
Eddy County, New Mexico

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To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time XTO Energy, Inc will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN

Digitally signed by CRISHA
MORGAN
Date: 2023.07.03 11:32:45 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**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**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Soil Boring for determination of depth to groundwater

2. Name of Operator XTO Energy, Inc.

3a. Address 3104 E. Greene Street, Carlsbad, New Mexico, 88220

3b. Phone No. (include area code)
(575) 200-07294. Location of Well (Footage, Sec., T., R., M., or Survey Description)
P-17-25S-30E, Latitude 32.123445, Longitude -103.896478

5. Lease Serial No. NMLC064894

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. Poker Lake Unit CVX JV RR 010H

9. API Well No. 30-015-42158

10. Field and Pool or Exploratory Area
NA11. Country or Parish, State
Eddy County, New Mexico

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice | <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> 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 recompleat 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 performed 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 recompleat 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 determined that the site is ready for final inspection.)

XTO Energy, Inc. (XTO) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring will be located at the active XTO well pad listed above (32.123445, -103.896478). The soil boring will be left open for approximately 72 hours, to allow for the slow inflow of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the site and proposed soil boring location are included with this Form 3160.

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14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Garrett GreenSSHE Coordinator
Title

Signature

Date 6/14/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CRISHA MORGAN

Digitally signed by CRISHA MORGAN
Date: 2023.07.03 10:57:59 -06'00'

Title EPS

Date 07/03/2023

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
CFO

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 of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

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**PLU PC 17 BATTERY,
PLU PC 17 SWD 1,
PLU CVX JV RR 006H,
PLU-CVX-JV-PC #001H
SWD Line**

32.123445, -103.896478
Surface Owner: BLM

Legend

-  0.5 Mile Radius
-  Proposed Soil Boring
-  Incident Sites
-  XTO Wells

PLU PC 17 SWD 1

Poker Lake Unit CVX JV RR 010H
Well Pad

PLU-CVX-JV-PC #001H SWD Line

PLU PC 17 BATTERY
Proposed Soil Boring

PLU CVX JV RR 006H

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Google Earth

Image © 2023 Maxar Technologies

3000 ft





APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.

PLU Pierce Canyon 17 Fed SWD 001

nAPP2216839215



| | |
|---|----------------|
| Photograph 1 | Date: 11/27/23 |
| Description: Excavation from North view | |



Photograph 2 Date: 11/30/23
Description: Excavation from Northeast view



| | |
|--|----------------|
| Photograph 3 | Date: 01/26/24 |
| Description: West view of final excavation | |



Photograph 4 Date: 02/22/24
Description: Backfilled from Northeast view



APPENDIX D

Laboratory Analytical Reports and Chain of Custody Documentation

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

Action 421547

QUESTIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Prerequisites | |
|------------------|---|
| Incident ID (n#) | nAPP2216839215 |
| Incident Name | NAPP2216839215 PLU PIERCE CANYON 17 FED SWD 001 @ 0 |
| Incident Type | Release Other |
| Incident Status | Remediation Closure Report Received |

Location of Release Source

Please answer all the questions in this group.

| | |
|-------------------------|----------------------------------|
| Site Name | PLU PIERCE CANYON 17 FED SWD 001 |
| Date Release Discovered | 06/05/2022 |
| Surface Owner | Federal |

Incident Details

Please answer all the questions in this group.

| | |
|--|---------------|
| Incident Type | Release Other |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

Nature and Volume of Release

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 | Not answered. |
| Produced Water Released (bbls) Details | Not answered. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Not answered. |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Cause: Equipment Failure Valve Brine Water Released: 6 BBL Recovered: 6 BBL Lost: 0 BBL. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS, Page 2

Action 421547

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [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) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No |
| Reasons why this would be considered a submission for a notification of a major release | <i>Unavailable.</i> |
| <i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i> | |

Initial Response

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

| | |
|--|----------------------|
| The source of the release has been stopped | 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 | <i>Not answered.</i> |

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

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

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/16/2025 |
|--|--|

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

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

QUESTIONS, Page 3

Action 421547

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS**Site Characterization**

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

| | |
|--|---------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | Attached Document |
| 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 ½ and 1 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Greater than 5 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between ½ and 1 (mi.) |
| A subsurface mine | Between ½ and 1 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

Remediation Plan

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

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

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

| | |
|---|-------|
| Chloride (EPA 300.0 or SM4500 Cl B) | 36900 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 152 |
| GRO+DRO (EPA SW-846 Method 8015M) | 152 |
| 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 | 08/24/2022 |
| On what date will (or did) the final sampling or liner inspection occur | 01/26/2024 |
| On what date will (or was) the remediation complete(d) | 01/26/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed | 3260 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 245 |
| What is the estimated surface area (in square feet) that will be remediated | 3260 |
| What is the estimated volume (in cubic yards) that will be remediated | 245 |

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

QUESTIONS, Page 4

Action 421547

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|--|
| Remediation Plan (continued) | |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (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 | OWL LANDFILL JAL [fJEG1635837366] |
| 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. |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i> | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 01/16/2025 |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i> | |

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

QUESTIONS, Page 5

Action 421547

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|----|
| Deferral Requests Only | |
| 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, Page 6

Action 421547

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 305640 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/26/2024 |
| What was the (estimated) number of samples that were to be gathered | 5 |
| What was the sampling surface area in square feet | 1000 |

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 | 3260 |
| What was the total volume (cubic yards) remediated | 245 |
| 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 | 3260 |
| What was the total volume (in cubic yards) reclaimed | 245 |
| Summarize any additional remediation activities not included by answers (above) | Chloride results from delineation samples as well as floor excavation samples exceeded the reclamation requirement. The sampling locations reporting levels above the strictest Table 1 Closure Criteria were excavated between November 2023 and January 2024. The final excavation extent at the Site measured approximately 3,260 square feet. A total of approximately 245 cubic yards of impacted soil was removed during excavation activities. Laboratory analytical results for delineation soil samples collected at 0.5 feet bgs and pothole soil sample collected at 3 feet bgs indicated all COC concentrations were compliant with the strictest Table 1 Closure Criteria, providing lateral and vertical delineation of the release. Laboratory analytical results for excavation soil samples collected at depths ranging from 3 feet bgs to 4 feet bgs and sidewall samples indicated all COC concentrations were also compliant with the reclamation requirement. The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the plugging and abandoning (P&Aing) of all wells associated with the tank battery and decommissioning of all production equipment, pipelines, and tank battery, which will be removed, and the well pad is reclaimed. Site assessment and excavation activities were completed at the Site to address the impacted soil resulting from the June 5, 2022, release of brine water. Based on laboratory analytical results from the final excavation and delineation soil samples compliant with Closure Criteria and reclamation requirements where applicable, no further remediation is required. Initial response efforts, excavation of impacted soil, and natural attenuation have mitigated impacts at this Site. Depth to groundwater has been confirmed to be greater than 100 feet bgs within 0.5 miles of the Site and no other sensitive receptors were identified near the release extent. |

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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com |
|--|--|

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 421547

QUESTIONS (continued)

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|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
| | Action Type: [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 |

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State of New Mexico
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CONDITIONS

Action 421547

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 421547 |
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CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| rhamlet | We have received your Remediation Closure Report for Incident #NAPP2216839215, thank you. This Remediation Closure Report is approved. Please be advised that step-out sampling locations on pad that define the edge of the release will create the outline of the area that will need to be sampled for reclamation. The larger the step-out, the larger the eventual reclamation area that will need be to be sampled once the pad is abandoned and turned back to "land no longer in use." The reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. | 5/1/2025 |