

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2316047464 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|                         |                                                    |                   |                   |
|-------------------------|----------------------------------------------------|-------------------|-------------------|
| Responsible Party       | XTO Energy                                         | OGRID             | 5380              |
| Contact Name            | Garrett Green                                      | Contact Telephone | 575-200-0729      |
| Contact email           | garrett.green@exxonmobil.com                       | Incident #        | (assigned by OCD) |
| Contact mailing address | 3104 E. Greene Street, Carlsbad, New Mexico, 88220 |                   |                   |

### Location of Release Source

Latitude 32.21356 Longitude -103.86040  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |            |           |                  |
|-------------------------|------------|-----------|------------------|
| Site Name               | PLU C-1    | Site Type | Recycle Facility |
| Date Release Discovered | 05/29/2023 | API#      | (if applicable)  |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| P           | 15      | 24S      | 30E   | Eddy   |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: )

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|                                                    |                                                                                          |                                                                     |
|----------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 57.58                                                             | Volume Recovered (bbls) 0.00                                        |
|                                                    | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)                                                                   | Volume Recovered (bbls)                                             |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)                                                                    | Volume Recovered (Mcf)                                              |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)                                                   | Volume/Weight Recovered (provide units)                             |

Cause of Release Mechanical failure on pump flange caused fluids to release to soil No fluid was recovered due to soil saturation. A third-party contractor has been retained for remediation purposes.

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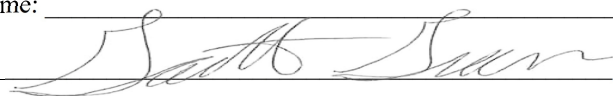
State of New Mexico  
Oil Conservation Division

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|                                                                                                                                                                                                                                                                                    |                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                              | If YES, for what reason(s) does the responsible party consider this a major release?<br>A release equal to or greater than 25 barrels. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br>Yes, by Garrett Green to Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD on Tuesday, May 30, 2023 10:24 PM via email. |                                                                                                                                        |

## Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.                                                                                                                                                                                                                                                                                               |                         |
| If all the actions described above have <u>not</u> been undertaken, explain why:<br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                         |
| 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. |                         |
| Printed Name: Garrett Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Title: SSHE Coordinator |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: 06/09/2023        |
| email: garrett.green@exxonmobil.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Telephone: 575-200-0729 |
| <b><u>OCD Only</u></b><br>Received by: _____ Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |

|                                          |                  |         |
|------------------------------------------|------------------|---------|
| <b>Location:</b>                         | <b>PLU C-1</b>   |         |
| <b>Spill Date:</b>                       | <b>5/29/2023</b> |         |
| <b>Area 1</b>                            |                  |         |
| Approximate Area =                       | 3546.00          | sq. ft. |
| Average Saturation (or depth) of spill = | 4.00             | inches  |
|                                          |                  |         |
| Average Porosity Factor =                | 0.10             |         |
|                                          |                  |         |
| <b>VOLUME OF LEAK</b>                    |                  |         |
| Total Crude Oil =                        | 0.00             | bbls    |
| Total Produced Water =                   | 21.05            | bbls    |
| <b>Area 2</b>                            |                  |         |
| Approximate Area =                       | 8204.00          | sq. ft. |
| Average Saturation (or depth) of spill = | 3.00             | inches  |
|                                          |                  |         |
| Average Porosity Factor =                | 0.10             |         |
|                                          |                  |         |
| <b>VOLUME OF LEAK</b>                    |                  |         |
| Total Crude Oil =                        | 0.00             | bbls    |
| Total Produced Water =                   | 36.53            | bbls    |
| <b>TOTAL VOLUME OF LEAK</b>              |                  |         |
| Total Crude Oil =                        | 0.00             | bbls    |
| Total Produced Water =                   | 57.58            | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                  |         |
| Total Crude Oil =                        | 0.00             | bbls    |
| Total Produced Water =                   | 0.00             | bbls    |

|                |                |
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## Site Assessment/Characterization

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?                                                                                                           | >105 (ft bgs)                                                       |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** Each of the following items must be included in the report.

☒

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

☒

Field data

☒

Data table of soil contaminant concentration data

☒

Depth to water determination

☒

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

☒

Boring or excavation logs

☒

Photographs including date and GIS information

☒

Topographic/Aerial maps

☒

Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico  
Oil Conservation Division

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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.

Printed Name: Garrett Green Title: SSHE Coordinator  
Signature:  Date: Nov 22 2023  
email: garrett.green@exxonmobil.com Telephone: 575-200-0729

**OCD Only**

Received by: Shelly Wells Date: 11/27/2023

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State of New Mexico  
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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Garrett Green

Title: SSHE Coordinator

Signature: 

Date: Nov 22 2023

email: garrett.green@exxonmobil.com

Telephone: 575-200-0729

**OCD Only**

Received by: Shelly Wells

Date: 11/27/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



November 20, 2023

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

**Re: Remediation Work Plan  
PLU C-1  
Incident Number NAPP2316047464  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document initial assessment activities completed to date and propose remedial actions to address impacted soil identified at the PLU C-1 (Site).

## **RELEASE SUMMARY AND BACKGROUND**

The Site is located in Unit P, Section 15, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21356°, -103.86040°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 29, 2023, mechanical failure of a pump flange caused the release of approximately 57.58 barrels (bbls) of produced water along a pipeline right-of-way (ROW). Free-standing fluids were not able to be recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 30, 2023, and submitted a Release Notification Form C-141 (Form C-141) on June 9, 2023. The release was assigned Incident Number NAPP2316047464.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented 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 the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE). The soil boring (C-4575) is located approximately 0.65 miles southeast of the Site and was completed on January 4, 2022 as a depth to water boring assessment. The soil boring was drilled to a depth of 105 feet bgs and no groundwater was encountered. Based on the recently installed soil boring, depth to water at the Site is reasonably estimated to be greater than 100 feet bgs. The well record is included in Appendix A and all wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an



XTO Energy, Inc.  
Remediation Work Plan  
PLU C-1

occupied residence, school, hospital, institution, church, significant water course, or wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the closest depth to groundwater data exceeding a distance of 0.5 miles from the Site, as preferred by the NMOCD, the following Table I Closure Criteria (Closure Criteria) apply:

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

## SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 17, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. An excavation, related to the pipeline operations, existed near the point of release. Two soil samples were collected (SS01 and SS01A) at the base of the existing excavation at depths of 12 feet and 13 feet bgs, respectively, to assess the presence or absence of contaminants of concern (COCs) at concentrations that exceed the Closure Criteria. A total of five additional soil samples (SS02 through SS06) were collected within the release extent at depth of 0.5 feet bgs, to assess surficial soil within the release. Lateral soil samples (SS07 through SS12) were collected outside of the release extent to define the release extent. Soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log of Site conditions is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Ensolum returned to the Site on August 10, 2023, to assess soil vertically within the release extent. Boreholes BH02 through BH06 were advanced via hand auger in the vicinity of surface soil samples SS02 through SS06, respectfully. Soil was field screened for VOCs and chloride and samples were collected at depths ranging from 1-foot to 4 feet bgs. Soil samples were submitted for laboratory analysis as described above. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. Borehole locations are depicted on Figure 2.

Laboratory analytical results for assessment soil samples SS01 and SS01A, collected at the base of the existing excavation, completed prior to the release by XTO's pipeline operations group and located immediately adjacent to the point of release, indicated all COC concentrations were in compliance with the Closure Criteria, confirming the absence of impacted soil in this area. In order to protect the structural integrity of the production equipment installed, the excavation was backfilled following a review of the laboratory analytical results. Laboratory analytical results for surficial soil samples SS02 through SS06,



XTO Energy, Inc.  
Remediation Work Plan  
PLU C-1

collected within the release extent at 0.5 feet bgs, indicated the chloride concentrations in all five soil samples exceeded the Closure Criteria. Laboratory analytical results for vertical soil samples collected within the release extent indicated all COC concentrations were in compliance with the Closure Criteria, with the exception of BH03, collected at 4 feet bgs. Laboratory analytical results for lateral soil samples SS07 through SS12 indicated all COC concentrations were in compliance with the Closure Criteria. Soil analytical results from delineation activities are summarized on Table 1. The full laboratory analytical reports are included in Appendix D.

Based on laboratory analytical results of delineation soil samples collected within the release extent, soil containing chloride at concentrations greater than 600 mg/kg, is present within the release extent at depths ranging from the ground surface to a maximum depth of 4 feet bgs. As such, excavation appears warranted.

## PROPOSED REMEDIATION WORK PLAN

Ensolum completed delineation activities at the Site to assess soil conditions following a May 2023 release of produced water within a pipeline ROW on federal land. Assessment activities indicates chloride concentrations in soil at the ground surface to 4 feet bgs do exceed the Closure Criteria, which requires excavation, backfilling with non-waste containing soil and reseeded to fully reclaim the Site. XTO is proposing the following remedial actions to address the May 2023 release:

- Excavate impacted soil to a depth of 4 feet bgs within the release extent footprint as depicted on Figure 2;
- Collect confirmation samples at the sampling frequency of one 5-point composite soil sample every 200 square feet along the excavation floor and sidewalls to confirm the proper removal of impacted soil;
- Backfill and recontour the fully excavated area to match pre-existing conditions;
- Re-seed the backfilled area with a BLM-approved seed mixture.

The release extent area covers approximate 8,200 square feet and estimating an average of 2 feet vertically to remove waste-containing soil, an estimated 600 cubic yards of soil will be excavated and properly transported to a New Mexico approved landfill facility for disposal. The remedial/reclamation approach described is believed to be protective of human health, the environment, and groundwater.

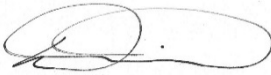
## PROPOSED SCHEDULE

XTO will complete excavation and confirmation soil sampling and will submit a *Closure Request* within 90 days following approval of the *Work Plan* from NMOCD.

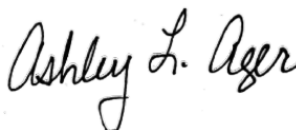
XTO Energy, Inc.  
Remediation Work Plan  
PLU C-1

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

Sincerely,  
**Ensolum, LLC**



Daniel R. Moir, PG  
Senior Managing Geologist



Ashley L. Ager, MS, PG  
Principal

cc: Garrett Green, XTO  
Tommee Lambert, XTO  
BLM

Appendices:

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

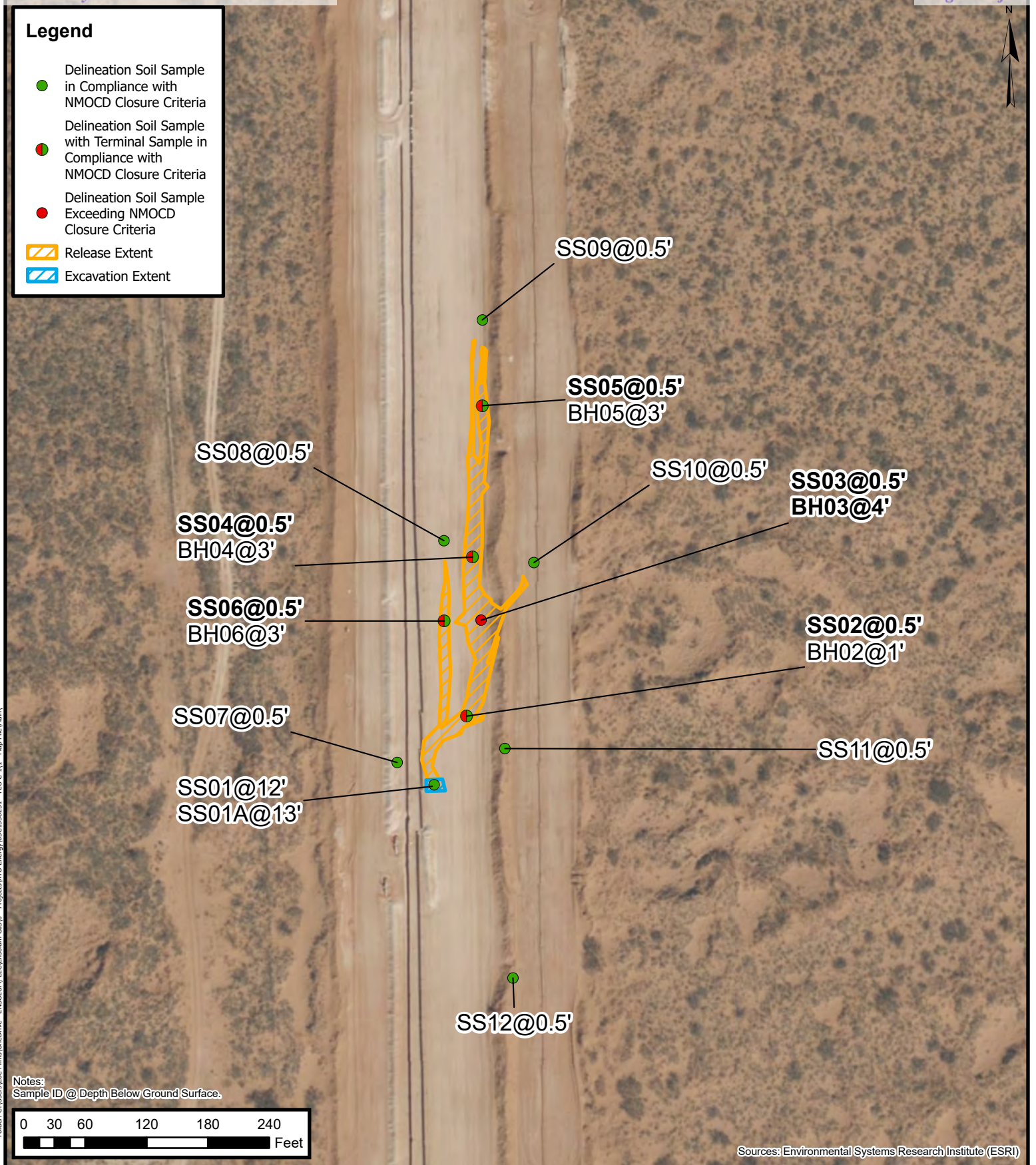


Figures









## Delineation Soil Sample Locations

XTO Energy, Inc.  
PLU C-1  
Incident Number: NAPP2316047464  
Unit P, Sec 15, T24S, R30E  
Eddy County, New Mexico

FIGURE

2



Table



TABLE 1  
SOIL SAMPLE ANALYTICAL RESULTS  
PLU C-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 I Closure Criteria (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | NE              | 100               | 600              |
| Delineation Soil Samples                       |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01                                           | 07/17/2023  | 12                      | <0.00200        | <0.00401           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 71.7             |
| SS01A                                          | 07/17/2023  | 13                      | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 68.0             |
| SS02                                           | 07/17/2023  | 0.5                     | <0.00202        | <0.00403           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 2,210            |
| BH02                                           | 08/10/2023  | 1                       | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 307              |
| SS03                                           | 07/17/2023  | 0.5                     | <0.00201        | <0.00402           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 2,480            |
| BH03                                           | 08/10/2023  | 4                       | <0.00200        | <0.00401           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 1,340            |
| SS04                                           | 07/17/2023  | 0.5                     | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 802              |
| BH04                                           | 08/10/2023  | 3                       | <0.00201        | <0.00402           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 182              |
| SS05                                           | 07/17/2023  | 0.5                     | <0.00202        | <0.00404           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 3,080            |
| BH05                                           | 08/10/2023  | 3                       | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 101              |
| SS06                                           | 07/17/2023  | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 1,580            |
| BH06                                           | 08/10/2023  | 3                       | <0.00198        | <0.00396           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 327              |
| SS07                                           | 07/17/2023  | 0.5                     | <0.00200        | <0.00399           | <50.5           | <50.5           | <50.5           | <50.5           | <50.5             | 60.5             |
| SS08                                           | 07/17/2023  | 0.5                     | <0.00200        | <0.00399           | <50.4           | <50.4           | <50.4           | <50.4           | <50.4             | 40.1             |
| SS09                                           | 07/17/2023  | 0.5                     | <0.00202        | <0.00403           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 38.9             |
| SS10                                           | 07/17/2023  | 0.5                     | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 50.5             |
| SS11                                           | 07/17/2023  | 0.5                     | <0.00200        | <0.00399           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 29.7             |
| SS12                                           | 07/17/2023  | 0.5                     | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 26.2             |

Notes:

bgs: below ground surface  
mg/kg: milligrams per kilogram  
NMOCD: New Mexico Oil Conservation Division  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes  
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon  
NMAC: New Mexico Administrative Code  
Grey text indicates soil sample removed during excavation activities





## APPENDIX A

### Well Log Record

**WELL RECORD & LOG****OFFICE OF THE STATE ENGINEER**[www.ose.state.nm.us](http://www.ose.state.nm.us)

OSE OIT JAN 24 2022 PM 3:00

|                                                                                                                                                              |                                                     |                  |                        |               |                           |   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------|------------------------|---------------|---------------------------|---|--|
| <b>1. GENERAL AND WELL LOCATION</b>                                                                                                                          | OSE POD NO. (WELL NO.)<br>POD1 (BH-01)              |                  | WELL TAG ID NO.<br>n/a |               | OSE FILE NO(S).<br>C-4575 |   |  |
|                                                                                                                                                              | WELL OWNER NAME(S)<br>XTO Energy (Kyle Littrell )   |                  |                        |               | PHONE (OPTIONAL)          |   |  |
|                                                                                                                                                              | WELL OWNER MAILING ADDRESS<br>6401 Holiday Hill Dr. |                  |                        |               | CITY<br>Midland           |   |  |
|                                                                                                                                                              |                                                     |                  |                        |               | STATE<br>TX               |   |  |
|                                                                                                                                                              |                                                     |                  |                        |               | ZIP<br>79707              |   |  |
|                                                                                                                                                              | WELL LOCATION<br>(FROM GPS)                         | DEGREES<br>32    |                        | MINUTES<br>12 | SECONDS<br>38.03          | N |  |
|                                                                                                                                                              |                                                     | LONGITUDE<br>103 |                        | 50            | 58.70                     | W |  |
| * ACCURACY REQUIRED: ONE TENTH OF A SECOND                                                                                                                   |                                                     |                  |                        |               |                           |   |  |
| * DATUM REQUIRED: WGS 84                                                                                                                                     |                                                     |                  |                        |               |                           |   |  |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>NW NE Sec. 23 T24S R30E, NMPM |                                                     |                  |                        |               |                           |   |  |

|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------|--------------------|
| <b>2. DRILLING &amp; CASING INFORMATION</b> | LICENSE NO.<br>1249                                                                                                                                                                         |     | NAME OF LICENSED DRILLER<br>Jackie D. Atkins |                                                                                           |                                                         | NAME OF WELL DRILLING COMPANY<br>Atkins Engineering Associates, Inc. |                                                  |                    |
|                                             | DRILLING STARTED<br>1-4-2022                                                                                                                                                                |     | DRILLING ENDED<br>1-4-2022                   |                                                                                           | DEPTH OF COMPLETED WELL (FT)<br>temporary well material |                                                                      | BORE HOLE DEPTH (FT)<br>105                      |                    |
|                                             | DEPTH WATER FIRST ENCOUNTERED (FT)<br>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)<br>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<br>(include each casing string, and note sections of screen) | CASING CONNECTION TYPE<br>(add coupling diameter)       | CASING INSIDE DIAM. (inches)                                         | CASING WALL THICKNESS (inches)                   | SLOT SIZE (inches) |
|                                             | FROM                                                                                                                                                                                        | TO  |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             | 0                                                                                                                                                                                           | 105 | ±8.5                                         | Boring- HSA                                                                               | --                                                      | --                                                                   | --                                               | --                 |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |
|                                             |                                                                                                                                                                                             |     |                                              |                                                                                           |                                                         |                                                                      |                                                  |                    |

|                            |                  |    |                          |                                                                   |                     |                     |
|----------------------------|------------------|----|--------------------------|-------------------------------------------------------------------|---------------------|---------------------|
| <b>3. ANNULAR MATERIAL</b> | DEPTH (feet bgl) |    | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|                            | FROM             | TO |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |
|                            |                  |    |                          |                                                                   |                     |                     |

FOR OSE INTERNAL USE

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

|                           |                   |                |
|---------------------------|-------------------|----------------|
| FILE NO. C-4575           | POD NO. 1         | TRN NO. 709414 |
| LOCATION 2-1-1 24S-30E-23 | WELL TAG ID NO. — | PAGE 1 OF 2    |

MON

05E DII JAN 24 2022 PM 3:00

Mon



# OSE\_Well Record and Log\_-forsign

Final Audit Report

2022-01-22

|                 |                                              |
|-----------------|----------------------------------------------|
| Created:        | 2022-01-21                                   |
| By:             | Lucas Middleton (lucas@atkinseng.com)        |
| Status:         | Signed                                       |
| Transaction ID: | CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri |

## "OSE\_Well Record and Log\_-forsign" History

 Document created by Lucas Middleton (lucas@atkinseng.com)

2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123

OSE DTI JAN 24 2022 PM 3:00

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2022-01-21 - 10:48:19 PM GMT

 Email viewed by Jack Atkins (jack@atkinseng.com)

2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232

 Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.

2022-01-22 - 0:16:23 AM GMT





## APPENDIX B

### Photographic Log

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## Photographic Log

XTO Energy, Inc

PLU C-1

Incident Number NAPP2316047464

Date & Time: Mon, Jul 17, 2023 at 08:42:53 MDT  
Position: +032.214256° / -103.860666° (±15.6ft)  
Altitude: 3443ft (±11.0ft)  
Datum: WGS-84  
Azimuth/Bearing: 005° N05E 0089mils True (±12°)  
Elevation Angle: -02.4°  
Horizon Angle: +00.1°  
Zoom: 0.5X  
release extent  
Mariaha O Dell



Photograph 1

Date: 7/17/2023

Description: Release extent

View: North

Date & Time: Mon, Jul 17, 2023 at 12:20:34 MDT  
Position: +032.213163° / -103.860757° (±15.6ft)  
Altitude: 3456ft (±11.0ft)  
Datum: WGS-84  
Azimuth/Bearing: 045° N45E 0800mils True (±13°)  
Elevation Angle: -06.9°  
Horizon Angle: +01.2°  
Zoom: 0.5X  
excavation looking north  
Mariaha O Dell



Photograph 2

Date: 7/17/2023

Description: Initial excavation of saturated soil

View: Northeast

Date & Time: Mon, Jul 17, 2023 at 12:21:14 MDT  
Position: +032.213073° / -103.860539° (±15.6ft)  
Altitude: 3460ft (±11.0ft)  
Datum: WGS-84  
Azimuth/Bearing: 185° S05W 3289mils True (±13°)  
Elevation Angle: -04.4°  
Horizon Angle: +00.6°  
Zoom: 0.5X  
access road into excavation and release extent  
Mariaha O Dell



Photograph 3

Date: 7/17/2023

Description: Sandy access road to release extent

View: South

Date & Time: Mon, Jul 17, 2023 at 12:51:07 MDT  
Position: +032.213505° / -103.860769° (±15.1ft)  
Altitude: 3453ft (±11.6ft)  
Datum: WGS-84  
Azimuth/Bearing: 105° S75E 1867mils True (±13°)  
Elevation Angle: -20.8°  
Horizon Angle: -01.9°  
Zoom: 0.5X  
excavation and release point  
Mariaha O Dell



Photograph 4

Date: 7/17/2023

Description: Additional view of initial excavation

View: East-Southeast



## Photographic Log

XTO Energy, Inc

PLU C-1

Incident Number NAPP2316047464

Date & Time: Thu, Aug 10, 2023 at 12:41:52 MDT  
Position: +032.213834° / -103.860730° (±32.8ft)  
Altitude: 3379ft (±62.3ft)  
Datum: WGS-84  
Azimuth/Bearing: 193° S13W 343mils True (±12°)  
Elevation Angle: -08.1°  
Horizon Angle: +00.6°  
Zoom: 0.5X  
BH02 at 1' south view  
Mariaha O Dell



Date & Time: Thu, Aug 10, 2023 at 12:47:20 MDT  
Position: +032.214005° / -103.860670° (±15.1ft)  
Altitude: 3447ft (±11.6ft)  
Datum: WGS-84  
Azimuth/Bearing: 024° N24E 0427mils True (±12°)  
Elevation Angle: -10.5°  
Horizon Angle: -00.7°  
Zoom: 0.5X  
BH03 at 3'  
Mariaha O Dell



Photograph 5

Date: 8/10/2023

Description: Vertical delineation activities (BH02)

View: South

Photograph 6

Date: 8/10/2023

Description: Vertical delineation activities (BH03)

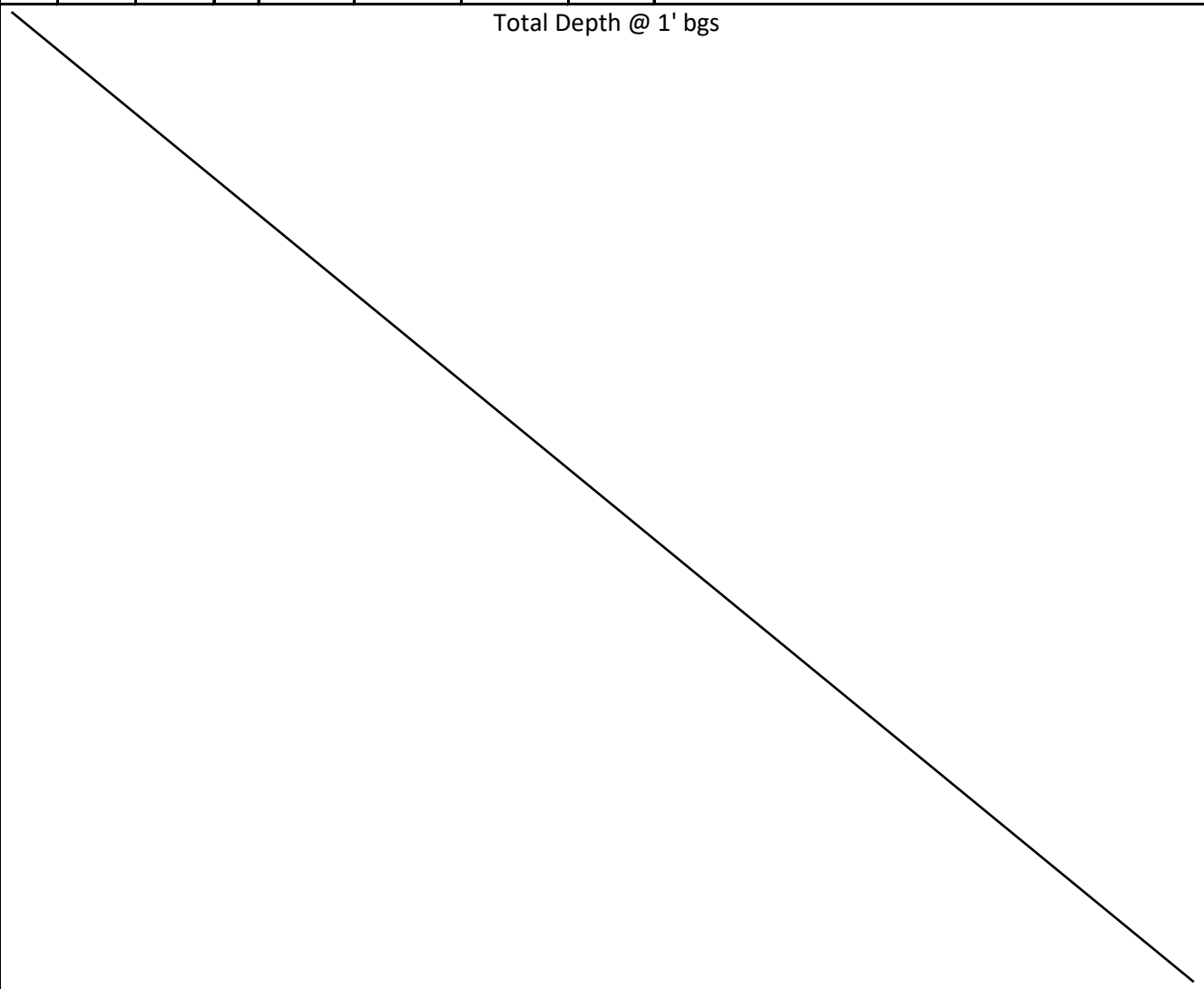
View: Northeast

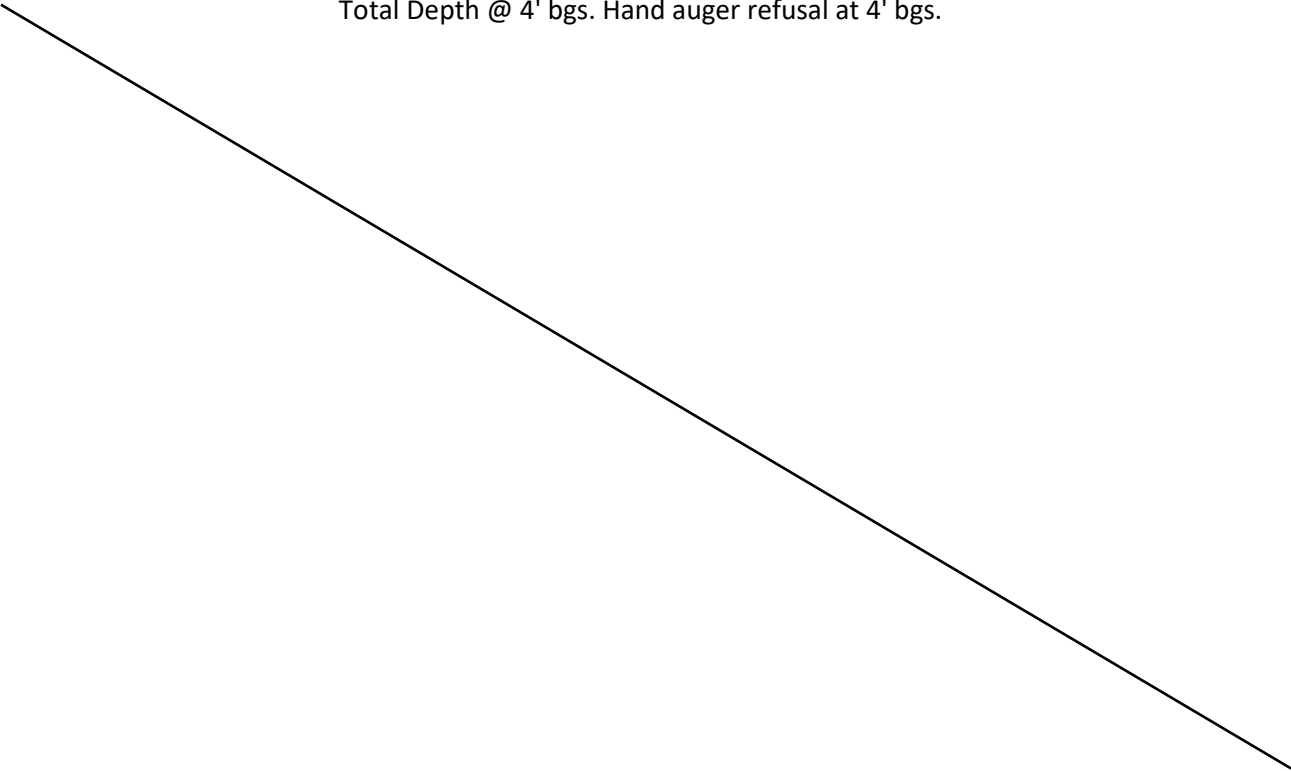


## APPENDIX C

### Lithologic / Soil Sampling Logs



|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---------------------------------------------------------------------|-------------------------------------|--|--------------------|--|
|                                                                                                                                                                             |                |             |          |           |                       |                |                  |                                                                     | Sample Name: SS02/BH02              |  | Date: 8/10/2023    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     | Site Name: PLU C-1 Recycle Facility |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     | Incident Number: nAPP2316047464     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     | Job Number: 03C1558251              |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                        |                |             |          |           |                       |                |                  |                                                                     | Logged By: M. O'Dell                |  | Method: Hand Auger |  |
| Coordinates: 32.213714, -103.860711                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  |                                                                     | Hole Diameter: 6"                   |  | Total Depth: 1.0'  |  |
| 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. All chloride measurements done with a + 40% correction factor. |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                             | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                             |                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 3020           | 0.0         | N        | SS02      | 0.5                   | 0.5            | SW               | Sand. Reddish brown, very fine to fine grained, well graded, dry.   |                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 246.4          | 0.0         | N        | BH02      | 1                     | 1              | SP               | Sand. Reddish brown, very fine to fine grained, poorly graded, dry. |                                     |  |                    |  |
| Total Depth @ 1' bgs                                                                                                                                                                                                                                         |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
|                                                                                                                                                                           |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |                                     |  |                    |  |

|                                                                                                                                                                             |                |             |          |           |                       |                |                  | Sample Name: SS03/BH03                                              |  | Date: 8/10/2023    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Site Name: PLU C-1 Recycle Facility                                 |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Incident Number: nAPP2316047464                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Job Number: 03C1558251                                              |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                        |                |             |          |           |                       |                |                  | Logged By: M. O'Dell                                                |  | Method: Hand Auger |  |
| Coordinates: 32.213982, -103.860657                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Hole Diameter: 6"                                                   |  | Total Depth: 4'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements done with a + 40% correction factor. |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                             | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                             |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1982           | 0.0         | N        | SS03      | 0.5                   | 0.5            | SW               | Sand. Reddish brown, very fine to fine grained, well graded, dry.   |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,389          | 0.0         | N        |           |                       | 1              | SP               | Sand. Reddish brown, very fine to fine grained, poorly graded, dry. |  |                    |  |
| D                                                                                                                                                                                                                                                            | 2,145          | 0.0         | N        |           |                       | 2              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 2,464          | 0.0         | N        |           |                       | 3              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,193          | 0.0         | N        | BH03      | 4                     | 4              |                  |                                                                     |  |                    |  |
| Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.                                                                                                                      |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |

|                                                                                                                                                                             |                |             |          |           |                       |                |                  | Sample Name: SS04/BH04                                              |  | Date: 8/10/2023    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Site Name: PLU C-1 Recycle Facility                                 |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Incident Number: nAPP2316047464                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Job Number: 03C1558251                                              |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                        |                |             |          |           |                       |                |                  | Logged By: M. O'Dell                                                |  | Method: Hand Auger |  |
| Coordinates: 32.214155, -103.860682                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Hole Diameter: 6"                                                   |  | Total Depth: 4'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements done with a + 40% correction factor. |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                             | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                             |  |                    |  |
| D                                                                                                                                                                                                                                                            | 952            | 0.0         | N        | SS04      | 0.5                   | 0.5            | SW               | Sand. Reddish brown, very fine to fine grained, well graded, dry.   |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,613          | 0.0         | N        | BH04      |                       | 1              | SP               | Sand. Reddish brown, very fine to fine grained, poorly graded, dry. |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,019          | 0.0         | N        |           |                       | 2              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 179.2          | 0.0         | N        |           |                       | 3              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | <179           | 0.0         | N        |           |                       | 4              |                  |                                                                     |  |                    |  |
| Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.                                                                                                                                                                                                          |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |

|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---------------------------------------------------------------------|--|--------------------|--|
|  <b>ENSOLUM</b>                                                                                                                                                             |                |             |          |           |                       |                |                  | Sample Name: SS05/BH05                                              |  | Date: 8/10/2023    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Site Name: PLU C-1 Recycle Facility                                 |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Incident Number: nAPP2316047464                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Job Number: 03C1558251                                              |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                        |                |             |          |           |                       |                |                  | Logged By: M. O'Dell                                                |  | Method: Hand Auger |  |
| Coordinates: 32.214559, -103.860645                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Hole Diameter: 6"                                                   |  | 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. All chloride measurements done with a + 40% correction factor. |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                             | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                             |  |                    |  |
| D                                                                                                                                                                                                                                                            | 4452           | 0.0         | N        | SS05      | 0.5                   | 0.5            | SW               | Sand. Reddish brown, very fine to fine grained, well graded, dry.   |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,103          | 0.0         | N        | BH05      |                       | 1              | SP               | Sand. Reddish brown, very fine to fine grained, poorly graded, dry. |  |                    |  |
| D                                                                                                                                                                                                                                                            | 448            | 0.0         | N        |           |                       | 2              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | <179           | 0.0         | N        |           |                       | 3              |                  |                                                                     |  |                    |  |
| Total Depth @ 3' bgs                                                                                                                                                                                                                                         |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
| \                                                                                                                                                                                                                                                            |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |



|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---------------------------------------------------------------------|--|--------------------|--|
|                                                                                                                                                                             |                |             |          |           |                       |                |                  | Sample Name: SS06/BH06                                              |  | Date: 8/10/2023    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Site Name: PLU C-1 Recycle Facility                                 |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Incident Number: nAPP2316047464                                     |  |                    |  |
|                                                                                                                                                                                                                                                              |                |             |          |           |                       |                |                  | Job Number: 03C1558251                                              |  |                    |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>                                                                                                                                                                                                                        |                |             |          |           |                       |                |                  | Logged By: M. O'Dell                                                |  | Method: Hand Auger |  |
| Coordinates: 32.213980, -103.860771                                                                                                                                                                                                                          |                |             |          |           |                       |                |                  | Hole Diameter: 6"                                                   |  | Total Depth: 4'    |  |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. All chloride measurements done with a + 40% correction factor. |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |
| Moisture Content                                                                                                                                                                                                                                             | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions                                             |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1725           | 0.0         | N        | SS06      | 0.5                   | 0.5            | SW               | Sand. Reddish brown, very fine to fine grained, well graded, dry.   |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,501          | 0.0         | N        | BH06      |                       | 1              | SP               | Sand. Reddish brown, very fine to fine grained, poorly graded, dry. |  |                    |  |
| D                                                                                                                                                                                                                                                            | 1,999          | 0.0         | N        |           |                       | 2              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 498            | 0.0         | N        |           |                       | 3              |                  |                                                                     |  |                    |  |
| D                                                                                                                                                                                                                                                            | 790            | 0.0         | N        |           |                       | 4              |                  |                                                                     |  |                    |  |
| Total Depth @ 4' bgs. Hand auger refusal @ 4' bgs.                                                                                                                                                                                                           |                |             |          |           |                       |                |                  |                                                                     |  |                    |  |



## APPENDIX D

### Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tacoma Morrissey  
Ensolum  
601 N. Marienfeld St.  
Suite 400  
Midland, Texas 79701

Generated 8/2/2023 1:48:17 PM Revision 1

## JOB DESCRIPTION

PLU C-1 RECYCLE FACILITY  
SDG NUMBER 03C1558251

## JOB NUMBER

890-4956-1

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



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

Generated  
8/2/2023 1:48:17 PM  
Revision 1

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Laboratory Job ID: 890-4956-1  
SDG: 03C1558251

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## Definitions/Glossary

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
 SDG: 03C1558251

### Qualifiers

#### GC 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. |

#### 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                                    |
|-----------|----------------------------------------------------------|
| 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                                                                                       |

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## Case Narrative

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

**Job ID: 890-4956-1**

**Laboratory: Eurofins Carlsbad**

### Narrative

#### Job Narrative 890-4956-1

### REVISION

The report being provided is a revision of the original report sent on 7/28/2023. The report (revision 1) is being revised due to Per client email, it is beleived that SS02 and SS07 were inadvertently switched.

### Receipt

The samples were received on 7/17/2023 4:11 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 3.0°C

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4956-1), SS01A (890-4956-2), SS07 (890-4956-3), SS03 (890-4956-4), SS04 (890-4956-5), SS05 (890-4956-6), SS06 (890-4956-7), SS02 (890-4956-8), SS08 (890-4956-9), SS09 (890-4956-10), SS10 (890-4956-11), SS11 (890-4956-12) and SS12 (890-4956-13).

### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4956-A-12-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58153 and analytical batch 880-58267 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/51).

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 for the following samples were outside control limits: SS01A (890-4956-2), (890-4929-A-1-C), (890-4929-A-1-D MS) and (890-4929-A-1-E MSD). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

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

## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS01

Lab Sample ID: 890-4956-1

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 12

## 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 |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 12:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 12:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 12:40 | 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 |   |          | 07/24/23 09:30 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 14:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 14:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 14:45 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 130       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 14:45 | 1       |
| o-Terphenyl    | 114       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 14:45 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 71.7   |           | 4.97 | mg/Kg |   |          | 07/20/23 10:01 | 1       |

Client Sample ID: SS01A

Lab Sample ID: 890-4956-2

Date Collected: 07/17/23 10:05

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 13

## 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 |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 78        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 16:27 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS01A

Date Collected: 07/17/23 10:05

Date Received: 07/17/23 16:11

Sample Depth: 13

Lab Sample ID: 890-4956-2

Matrix: Solid

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 92        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 16:27 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 15:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 15:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 15:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 131       | S1+       | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 15:07 | 1       |
| o-Terphenyl                          | 117       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 15:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 68.0   |           | 5.00 | mg/Kg |   |          | 07/20/23 10:16 | 1       |

Client Sample ID: SS07

Date Collected: 07/17/23 09:20

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-3

Matrix: Solid

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 16:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 75        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 16:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 16:48 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS07

Date Collected: 07/17/23 09:20

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-3

Matrix: Solid

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5     | U         | 50.5     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 15:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.5     | U         | 50.5     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 15:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.5     | U         | 50.5     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 15:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 126       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 15:29 | 1       |
| o-Terphenyl                          | 111       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 15:29 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 60.5   |           | 4.99 | mg/Kg |   |          | 07/20/23 10:22 | 1       |

Client Sample ID: SS03

Date Collected: 07/17/23 09:25

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-4

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 17:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 74        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 17:08 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 16:13 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2     | U         | 50.2     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:13 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2     | U         | 50.2     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:13 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 122       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 16:13 | 1       |
| o-Terphenyl                          | 103       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 16:13 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS03

Lab Sample ID: 890-4956-4

Date Collected: 07/17/23 09:25

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2480   |           | 25.1 | mg/Kg |   |          | 07/20/23 10:57 | 5       |

Client Sample ID: SS04

Lab Sample ID: 890-4956-5

Date Collected: 07/17/23 09:30

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

## 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 |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 17:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 75        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 17:29 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 16:34 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:34 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:34 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 118       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 16:34 | 1       |
| o-Terphenyl    | 101       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 16:34 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 802    |           | 5.03 | mg/Kg |   |          | 07/20/23 11:02 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS05

Lab Sample ID: 890-4956-6

Date Collected: 07/17/23 09:35

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 17:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 17:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 70        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 17:49 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U         | 0.00404 | mg/Kg |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 16:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 16:56 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 16:56 | 1       |
| o-Terphenyl    | 102       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 16:56 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 3080   |           | 25.0 | mg/Kg |   |          | 07/20/23 11:07 | 5       |

Client Sample ID: SS06

Lab Sample ID: 890-4956-7

Date Collected: 07/17/23 09:40

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:10 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 18:10 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS06

Date Collected: 07/17/23 09:40

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-7

Matrix: Solid

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 72        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 18:10 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 17:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 17:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 17:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 130       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 17:18 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 17:18 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1580   |           | 25.1 | mg/Kg |   |          | 07/20/23 11:12 | 5       |

Client Sample ID: SS02

Date Collected: 07/17/23 10:40

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-8

Matrix: Solid

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 18:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 18:30 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS02

Date Collected: 07/17/23 10:40

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-8

Matrix: Solid

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 17:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 17:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 17:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 130       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 17:40 | 1       |
| o-Terphenyl                          | 112       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 17:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 2210   |           | 25.0 | mg/Kg |   |          | 07/20/23 11:17 | 5       |

Client Sample ID: SS08

Date Collected: 07/17/23 10:45

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-9

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 18:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 79        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 18:51 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 18:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 129       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 18:02 | 1       |
| o-Terphenyl                          | 113       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 18:02 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS08

Date Collected: 07/17/23 10:45

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-9

Matrix: Solid

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 40.1   |           | 4.99 | mg/Kg |   |          | 07/20/23 11:22 | 1       |

Client Sample ID: SS09

Date Collected: 07/17/23 10:50

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-10

Matrix: Solid

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| m-Xylene & p-Xylene         | <0.00403  | U         | 0.00403  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| Xylenes, Total              | <0.00403  | U         | 0.00403  | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 77        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 77        |           | 70 - 130 |       |   | 07/20/23 14:04 | 07/22/23 19:11 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 18:24 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3     | U         | 50.3     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:24 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3     | U         | 50.3     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 125       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 18:24 | 1       |
| o-Terphenyl                          | 107       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 18:24 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 38.9   |           | 4.98 | mg/Kg |   |          | 07/20/23 11:28 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS10

Lab Sample ID: 890-4956-11

Date Collected: 07/17/23 10:55

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| Toluene             | 0.00277  |           | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 19:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 19:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 07/20/23 14:04 | 07/22/23 19:32 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 18:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 18:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105       |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 18:46 | 1       |
| o-Terphenyl    | 99        |           | 70 - 130 | 07/20/23 15:43 | 07/27/23 18:46 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 50.5   |           | 5.01 | mg/Kg |   |          | 07/19/23 18:43 | 1       |

Client Sample ID: SS11

Lab Sample ID: 890-4956-12

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U F1 F2   | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |
| Toluene             | <0.00200 | U F1 F2   | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |
| Ethylbenzene        | <0.00200 | U F1 F2   | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U F1 F2   | 0.00399 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |
| o-Xylene            | <0.00200 | U F1 F2   | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |
| Xylenes, Total      | <0.00399 | U F1 F2   | 0.00399 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:37 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 80        |           | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:37 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS11

Date Collected: 07/17/23 11:00

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-12

Matrix: Solid

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 94        |           | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:37 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 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 |   | 07/20/23 15:43 | 07/27/23 19:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 19:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 19:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 111       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 19:07 | 1       |
| o-Terphenyl                          | 95        |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 19:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 29.7   |           | 4.99 | mg/Kg |   |          | 07/19/23 18:48 | 1       |

Client Sample ID: SS12

Date Collected: 07/17/23 13:00

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Lab Sample ID: 890-4956-13

Matrix: Solid

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 82        |           | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:57 | 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 |   |          | 07/24/23 09:30 | 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 |   |          | 07/28/23 11:50 | 1       |

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# Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS12

Lab Sample ID: 890-4956-13

Date Collected: 07/17/23 13:00

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

## 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 |   | 07/20/23 15:43 | 07/27/23 19:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 19:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 07/20/23 15:43 | 07/27/23 19:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 108       |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 19:29 | 1       |
| o-Terphenyl                          | 91        |           | 70 - 130 |       |   | 07/20/23 15:43 | 07/27/23 19:29 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 26.2   |           | 4.99 | mg/Kg |   |          | 07/19/23 18:53 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |          |
|-----------------------------------|------------------------|------------------------------------------------|----------|
| Lab Sample ID                     | Client Sample ID       | BFB1                                           | DFBZ1    |
|                                   |                        | (70-130)                                       | (70-130) |
| 890-4956-1                        | SS01                   | 92                                             | 77       |
| 890-4956-2                        | SS01A                  | 78                                             | 92       |
| 890-4956-3                        | SS07                   | 75                                             | 86       |
| 890-4956-4                        | SS03                   | 89                                             | 74       |
| 890-4956-5                        | SS04                   | 94                                             | 75       |
| 890-4956-6                        | SS05                   | 89                                             | 70       |
| 890-4956-7                        | SS06                   | 90                                             | 72       |
| 890-4956-8                        | SS02                   | 95                                             | 80       |
| 890-4956-9                        | SS08                   | 91                                             | 79       |
| 890-4956-10                       | SS09                   | 77                                             | 77       |
| 890-4956-11                       | SS10                   | 81                                             | 93       |
| 890-4956-12                       | SS11                   | 80                                             | 94       |
| 890-4956-12 MS                    | SS11                   | 105                                            | 109      |
| 890-4956-12 MSD                   | SS11                   | 67 S1-                                         | 102      |
| 890-4956-13                       | SS12                   | 82                                             | 81       |
| LCS 880-58152/1-A                 | Lab Control Sample     | 113                                            | 104      |
| LCS 880-58153/1-A                 | Lab Control Sample     | 107                                            | 103      |
| LCSD 880-58152/2-A                | Lab Control Sample Dup | 111                                            | 105      |
| LCSD 880-58153/2-A                | Lab Control Sample Dup | 114                                            | 107      |
| MB 880-58152/5-A                  | Method Blank           | 72                                             | 87       |
| MB 880-58153/5-A                  | Method Blank           | 73                                             | 89       |
| <b>Surrogate Legend</b>           |                        |                                                |          |
| 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) |
| 890-4929-A-1-D MS  | Matrix Spike           | 147 S1+                                        | 119      |
| 890-4929-A-1-E MSD | Matrix Spike Duplicate | 144 S1+                                        | 112      |
| 890-4956-1         | SS01                   | 130                                            | 114      |
| 890-4956-2         | SS01A                  | 131 S1+                                        | 117      |
| 890-4956-3         | SS07                   | 126                                            | 111      |
| 890-4956-4         | SS03                   | 122                                            | 103      |
| 890-4956-5         | SS04                   | 118                                            | 101      |
| 890-4956-6         | SS05                   | 120                                            | 102      |
| 890-4956-7         | SS06                   | 130                                            | 113      |
| 890-4956-8         | SS02                   | 130                                            | 112      |
| 890-4956-9         | SS08                   | 129                                            | 113      |
| 890-4956-10        | SS09                   | 125                                            | 107      |
| 890-4956-11        | SS10                   | 105                                            | 99       |
| 890-4956-12        | SS11                   | 111                                            | 95       |
| 890-4956-13        | SS12                   | 108                                            | 91       |
| LCS 880-58169/2-A  | Lab Control Sample     | 112                                            | 105      |
| LCSD 880-58169/3-A | Lab Control Sample Dup | 102                                            | 92       |
| MB 880-58169/1-A   | Method Blank           | 162 S1+                                        | 150 S1+  |

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**Surrogate Summary**

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

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

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

# QC Sample Results

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
 SDG: 03C1558251

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

Lab Sample ID: MB 880-58152/5-A  
 Matrix: Solid  
 Analysis Batch: 58267

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 58152

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 07/20/23 14:04 | 07/22/23 11:37 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 72           |              | 70 - 130 | 07/20/23 14:04 | 07/22/23 11:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 87           |              | 70 - 130 | 07/20/23 14:04 | 07/22/23 11:37 | 1       |

Lab Sample ID: LCS 880-58152/1-A  
 Matrix: Solid  
 Analysis Batch: 58267

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 58152

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1155     |               | mg/Kg |   | 116  | 70 - 130    |
| Toluene             | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1131     |               | mg/Kg |   | 113  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2400     |               | mg/Kg |   | 120  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1176     |               | mg/Kg |   | 118  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 113           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-58152/2-A  
 Matrix: Solid  
 Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 58152

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1134      |                | mg/Kg |   | 113  | 70 - 130    | 2   | 35        |
| Toluene             | 0.100       | 0.09565     |                | mg/Kg |   | 96   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.1082      |                | mg/Kg |   | 108  | 70 - 130    | 4   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2268      |                | mg/Kg |   | 113  | 70 - 130    | 6   | 35        |
| o-Xylene            | 0.100       | 0.1115      |                | mg/Kg |   | 111  | 70 - 130    | 5   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 111            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105            |                | 70 - 130 |

Lab Sample ID: MB 880-58153/5-A  
 Matrix: Solid  
 Analysis Batch: 58267

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 58153

| Analyte | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |
| Toluene | <0.00200  | U            | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

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

Lab Sample ID: MB 880-58153/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58153

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 07/20/23 14:20 | 07/22/23 22:15 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 73              |                 | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89              |                 | 70 - 130 | 07/20/23 14:20 | 07/22/23 22:15 | 1       |

Lab Sample ID: LCS 880-58153/1-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58153

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|----------------|---------------|------------------|-------|---|------|----------------|
| Benzene             | 0.100          | 0.1275        |                  | mg/Kg |   | 127  | 70 - 130       |
| Toluene             | 0.100          | 0.1089        |                  | mg/Kg |   | 109  | 70 - 130       |
| Ethylbenzene        | 0.100          | 0.1194        |                  | mg/Kg |   | 119  | 70 - 130       |
| m-Xylene & p-Xylene | 0.200          | 0.2473        |                  | mg/Kg |   | 124  | 70 - 130       |
| o-Xylene            | 0.100          | 0.1220        |                  | mg/Kg |   | 122  | 70 - 130       |

| Surrogate                   | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|-----------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 107              |                  | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103              |                  | 70 - 130 |

Lab Sample ID: LCSD 880-58153/2-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58153

| Analyte             | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Benzene             | 0.100          | 0.1125         |                   | mg/Kg |   | 113  | 70 - 130       | 12  | 35           |
| Toluene             | 0.100          | 0.09756        |                   | mg/Kg |   | 98   | 70 - 130       | 11  | 35           |
| Ethylbenzene        | 0.100          | 0.1099         |                   | mg/Kg |   | 110  | 70 - 130       | 8   | 35           |
| m-Xylene & p-Xylene | 0.200          | 0.2298         |                   | mg/Kg |   | 115  | 70 - 130       | 7   | 35           |
| o-Xylene            | 0.100          | 0.1139         |                   | mg/Kg |   | 114  | 70 - 130       | 7   | 35           |

| Surrogate                   | LCSD<br>%Recovery | LCSD<br>Qualifier | Limits   |
|-----------------------------|-------------------|-------------------|----------|
| 4-Bromofluorobenzene (Surr) | 114               |                   | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107               |                   | 70 - 130 |

Lab Sample ID: 890-4956-12 MS

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Benzene             | <0.00200         | U F1 F2             | 0.0994         | 0.1079       |                 | mg/Kg |   | 109  | 70 - 130       |
| Toluene             | <0.00200         | U F1 F2             | 0.0994         | 0.08779      |                 | mg/Kg |   | 87   | 70 - 130       |
| Ethylbenzene        | <0.00200         | U F1 F2             | 0.0994         | 0.09645      |                 | mg/Kg |   | 97   | 70 - 130       |
| m-Xylene & p-Xylene | <0.00399         | U F1 F2             | 0.199          | 0.1954       |                 | mg/Kg |   | 98   | 70 - 130       |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

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

Lab Sample ID: 890-4956-12 MS

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| o-Xylene | <0.00200      | U F1 F2          | 0.0994      | 0.09653   |              | mg/Kg |   | 97   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 105          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109          |              | 70 - 130 |

Lab Sample ID: 890-4956-12 MSD

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00200      | U F1 F2          | 0.0998      | 0.05218    | F1 F2         | mg/Kg |   | 52   | 70 - 130    | 70  | 35        |
| Toluene             | <0.00200      | U F1 F2          | 0.0998      | 0.04482    | F1 F2         | mg/Kg |   | 44   | 70 - 130    | 65  | 35        |
| Ethylbenzene        | <0.00200      | U F1 F2          | 0.0998      | 0.04466    | F1 F2         | mg/Kg |   | 45   | 70 - 130    | 73  | 35        |
| m-Xylene & p-Xylene | <0.00399      | U F1 F2          | 0.200       | 0.08105    | F1 F2         | mg/Kg |   | 40   | 70 - 130    | 83  | 35        |
| o-Xylene            | <0.00200      | U F1 F2          | 0.0998      | 0.04170    | F1 F2         | mg/Kg |   | 41   | 70 - 130    | 79  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 67            | S1-           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102           |               | 70 - 130 |

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

Lab Sample ID: MB 880-58169/1-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58169

| 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 |   | 07/20/23 15:43 | 07/27/23 08:53 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 08:53 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 07/20/23 15:43 | 07/27/23 08:53 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 162          | S1+          | 70 - 130 | 07/20/23 15:43 | 07/27/23 08:53 | 1       |
| o-Terphenyl    | 150          | S1+          | 70 - 130 | 07/20/23 15:43 | 07/27/23 08:53 | 1       |

Lab Sample ID: LCS 880-58169/2-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58169

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1008       |               | mg/Kg |   | 101  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1021       |               | mg/Kg |   | 102  | 70 - 130    |

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# QC Sample Results

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
 SDG: 03C1558251

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

Lab Sample ID: LCS 880-58169/2-A  
 Matrix: Solid  
 Analysis Batch: 58603

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 58169

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

Lab Sample ID: LCSD 880-58169/3-A  
 Matrix: Solid  
 Analysis Batch: 58603

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 58169

| Analyte                              |           |           | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-----------|-----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 |           |           | 1000        | 957.9       |                | mg/Kg |   | 96   | 70 - 130    | 5   | 20        |
| Diesel Range Organics (Over C10-C28) |           |           | 1000        | 964.6       |                | mg/Kg |   | 96   | 70 - 130    | 6   | 20        |
| Surrogate                            | LCSD      | LCSD      |             |             |                |       |   |      |             |     |           |
|                                      | %Recovery | Qualifier |             |             |                |       |   |      |             |     |           |
| 1-Chlorooctane                       | 102       |           |             |             |                |       |   |      |             |     |           |
| o-Terphenyl                          | 92        |           |             |             |                |       |   |      |             |     |           |

Lab Sample ID: 890-4929-A-1-D MS  
 Matrix: Solid  
 Analysis Batch: 58603

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 58169

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|--|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1         | U F1             | 996         | 1476      | F1           | mg/Kg |   | 147  | 70 - 130    |  |  |
| Diesel Range Organics (Over C10-C28) | <50.1         | U F1             | 996         | 1447      | F1           | mg/Kg |   | 143  | 70 - 130    |  |  |
| Surrogate                            | MS            | MS               |             |           |              |       |   |      |             |  |  |
|                                      | %Recovery     | Qualifier        |             |           |              |       |   |      |             |  |  |
| 1-Chlorooctane                       | 147           | S1+              |             |           |              |       |   |      |             |  |  |
| o-Terphenyl                          | 119           |                  |             |           |              |       |   |      |             |  |  |

Lab Sample ID: 890-4929-A-1-E MSD  
 Matrix: Solid  
 Analysis Batch: 58603

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 58169

| 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 F1             | 996         | 1442       | F1            | mg/Kg |   | 143  | 70 - 130    | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.1         | U F1             | 996         | 1395       | F1            | mg/Kg |   | 138  | 70 - 130    | 4   | 20        |
| Surrogate                            | MSD           | MSD              |             |            |               |       |   |      |             |     |           |
|                                      | %Recovery     | Qualifier        |             |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 144           | S1+              |             |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 112           |                  |             |            |               |       |   |      |             |     |           |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58027/1-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 07/19/23 16:29 | 1       |

Lab Sample ID: LCS 880-58027/2-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 240.6         |                  | mg/Kg |   | 96   | 90 - 110       |

Lab Sample ID: LCSD 880-58027/3-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 240.4          |                   | mg/Kg |   | 96   | 90 - 110       | 0   | 20           |

Lab Sample ID: 880-30939-A-9-B MS

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 11900            |                     | 4970           | 16760        |                 | mg/Kg |   | 98   | 90 - 110       |

Lab Sample ID: 880-30939-A-9-C MSD

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 11900            |                     | 4970           | 16790         |                  | mg/Kg |   | 99   | 90 - 110       | 0   | 20           |

Lab Sample ID: MB 880-58012/1-A

Matrix: Solid

Analysis Batch: 58102

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 07/20/23 08:34 | 1       |

Lab Sample ID: LCS 880-58012/2-A

Matrix: Solid

Analysis Batch: 58102

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 232.9         |                  | mg/Kg |   | 93   | 90 - 110       |

Lab Sample ID: LCSD 880-58012/3-A

Matrix: Solid

Analysis Batch: 58102

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 232.9          |                   | mg/Kg |   | 93   | 90 - 110       | 0   | 20           |

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QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

|                              |               |                  |             |           |              |       |   |      |             |                        |  |  |  |
|------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|------------------------|--|--|--|
| Lab Sample ID: 890-4956-1 MS |               |                  |             |           |              |       |   |      |             | Client Sample ID: SS01 |  |  |  |
| Matrix: Solid                |               |                  |             |           |              |       |   |      |             | Prep Type: Soluble     |  |  |  |
| Analysis Batch: 58102        |               |                  |             |           |              |       |   |      |             |                        |  |  |  |
| Analyte                      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |                        |  |  |  |
| Chloride                     | 71.7          |                  | 249         | 299.5     |              | mg/Kg |   | 92   | 90 - 110    |                        |  |  |  |

|                               |               |                  |             |            |               |       |   |      |             |                        |           |  |  |
|-------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|------------------------|-----------|--|--|
| Lab Sample ID: 890-4956-1 MSD |               |                  |             |            |               |       |   |      |             | Client Sample ID: SS01 |           |  |  |
| Matrix: Solid                 |               |                  |             |            |               |       |   |      |             | Prep Type: Soluble     |           |  |  |
| Analysis Batch: 58102         |               |                  |             |            |               |       |   |      |             |                        |           |  |  |
| Analyte                       | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD                    | RPD Limit |  |  |
| Chloride                      | 71.7          |                  | 249         | 299.8      |               | mg/Kg |   | 92   | 90 - 110    | 0                      | 20        |  |  |

## QC Association Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

## GC VOA

## Prep Batch: 58152

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4956-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-2         | SS01A                  | Total/NA  | Solid  | 5035   |            |
| 890-4956-3         | SS07                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-4         | SS03                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-5         | SS04                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-6         | SS05                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-7         | SS06                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-8         | SS02                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-9         | SS08                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-10        | SS09                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-11        | SS10                   | Total/NA  | Solid  | 5035   |            |
| MB 880-58152/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-58152/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-58152/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 58153

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4956-12        | SS11                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-13        | SS12                   | Total/NA  | Solid  | 5035   |            |
| MB 880-58153/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-58153/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-58153/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-4956-12 MS     | SS11                   | Total/NA  | Solid  | 5035   |            |
| 890-4956-12 MSD    | SS11                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 58267

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4956-1         | SS01                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-2         | SS01A                  | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-3         | SS07                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-4         | SS03                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-5         | SS04                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-6         | SS05                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-7         | SS06                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-8         | SS02                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-9         | SS08                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-10        | SS09                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-11        | SS10                   | Total/NA  | Solid  | 8021B  | 58152      |
| 890-4956-12        | SS11                   | Total/NA  | Solid  | 8021B  | 58153      |
| 890-4956-13        | SS12                   | Total/NA  | Solid  | 8021B  | 58153      |
| MB 880-58152/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 58152      |
| MB 880-58153/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 58153      |
| LCS 880-58152/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 58152      |
| LCS 880-58153/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 58153      |
| LCSD 880-58152/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 58152      |
| LCSD 880-58153/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 58153      |
| 890-4956-12 MS     | SS11                   | Total/NA  | Solid  | 8021B  | 58153      |
| 890-4956-12 MSD    | SS11                   | Total/NA  | Solid  | 8021B  | 58153      |

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# QC Association Summary

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
 SDG: 03C1558251

## GC VOA

### Analysis Batch: 58326

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-4956-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-2    | SS01A            | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-3    | SS07             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-4    | SS03             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-5    | SS04             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-6    | SS05             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-7    | SS06             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-8    | SS02             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-9    | SS08             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-10   | SS09             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-11   | SS10             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-12   | SS11             | Total/NA  | Solid  | Total BTEX |            |
| 890-4956-13   | SS12             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

### Prep Batch: 58169

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-4956-1         | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-2         | SS01A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-3         | SS07                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-4         | SS03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-5         | SS04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-6         | SS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-7         | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-8         | SS02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-9         | SS08                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-10        | SS09                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-11        | SS10                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-12        | SS11                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4956-13        | SS12                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-58169/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-58169/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-58169/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4929-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-4929-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

### Analysis Batch: 58603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-4956-1    | SS01             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-2    | SS01A            | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-3    | SS07             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-4    | SS03             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-5    | SS04             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-6    | SS05             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-7    | SS06             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-8    | SS02             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-9    | SS08             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-10   | SS09             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-11   | SS10             | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4956-12   | SS11             | Total/NA  | Solid  | 8015B NM | 58169      |

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## QC Association Summary

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
 SDG: 03C1558251

### GC Semi VOA (Continued)

#### Analysis Batch: 58603 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4956-13        | SS12                   | Total/NA  | Solid  | 8015B NM | 58169      |
| MB 880-58169/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 58169      |
| LCS 880-58169/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 58169      |
| LCSD 880-58169/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4929-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 58169      |
| 890-4929-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 58169      |

#### Analysis Batch: 58719

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-4956-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-2    | SS01A            | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-3    | SS07             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-4    | SS03             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-5    | SS04             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-6    | SS05             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-7    | SS06             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-8    | SS02             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-9    | SS08             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-10   | SS09             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-11   | SS10             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-12   | SS11             | Total/NA  | Solid  | 8015 NM |            |
| 890-4956-13   | SS12             | Total/NA  | Solid  | 8015 NM |            |

### HPLC/IC

#### Leach Batch: 58012

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4956-1         | SS01                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-2         | SS01A                  | Soluble   | Solid  | DI Leach |            |
| 890-4956-3         | SS07                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-4         | SS03                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-5         | SS04                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-6         | SS05                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-7         | SS06                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-8         | SS02                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-9         | SS08                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-10        | SS09                   | Soluble   | Solid  | DI Leach |            |
| MB 880-58012/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-58012/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-58012/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-4956-1 MS      | SS01                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-1 MSD     | SS01                   | Soluble   | Solid  | DI Leach |            |

#### Leach Batch: 58027

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-4956-11        | SS10                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-12        | SS11                   | Soluble   | Solid  | DI Leach |            |
| 890-4956-13        | SS12                   | Soluble   | Solid  | DI Leach |            |
| MB 880-58027/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-58027/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-58027/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

## HPLC/IC (Continued)

## Leach Batch: 58027 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 880-30939-A-9-B MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-30939-A-9-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 58062

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-4956-11         | SS10                   | Soluble   | Solid  | 300.0  | 58027      |
| 890-4956-12         | SS11                   | Soluble   | Solid  | 300.0  | 58027      |
| 890-4956-13         | SS12                   | Soluble   | Solid  | 300.0  | 58027      |
| MB 880-58027/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 58027      |
| LCS 880-58027/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 58027      |
| LCSD 880-58027/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 58027      |
| 880-30939-A-9-B MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 58027      |
| 880-30939-A-9-C MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 58027      |

## Analysis Batch: 58102

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-4956-1         | SS01                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-2         | SS01A                  | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-3         | SS07                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-4         | SS03                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-5         | SS04                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-6         | SS05                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-7         | SS06                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-8         | SS02                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-9         | SS08                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-10        | SS09                   | Soluble   | Solid  | 300.0  | 58012      |
| MB 880-58012/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 58012      |
| LCS 880-58012/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 58012      |
| LCSD 880-58012/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-1 MS      | SS01                   | Soluble   | Solid  | 300.0  | 58012      |
| 890-4956-1 MSD     | SS01                   | Soluble   | Solid  | 300.0  | 58012      |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS01

Date Collected: 07/17/23 10:00

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-1

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         |     |            | 4.99 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 12:40       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 14:45       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 10:01       | CH      | EET MID |

Client Sample ID: SS01A

Date Collected: 07/17/23 10:05

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-2

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         |     |            | 5.03 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 16:27       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 15:07       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 10:16       | CH      | EET MID |

Client Sample ID: SS07

Date Collected: 07/17/23 09:20

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 16:48       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.91 g         | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 15:29       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 10:22       | CH      | EET MID |

Client Sample ID: SS03

Date Collected: 07/17/23 09:25

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 17:08       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |

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## Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS03

Date Collected: 07/17/23 09:25

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-4

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          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 16:13       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 58102        | 07/20/23 10:57       | CH      | EET MID |

Client Sample ID: SS04

Date Collected: 07/17/23 09:30

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 17:29       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 16:34       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 11:02       | CH      | EET MID |

Client Sample ID: SS05

Date Collected: 07/17/23 09:35

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 17:49       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 16:56       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 58102        | 07/20/23 11:07       | CH      | EET MID |

Client Sample ID: SS06

Date Collected: 07/17/23 09:40

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 18:10       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 17:18       | AJ      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS06

Date Collected: 07/17/23 09:40

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 58102        | 07/20/23 11:12       | CH      | EET MID |

Client Sample ID: SS02

Date Collected: 07/17/23 10:40

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-8

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         |     |            | 4.96 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 18:30       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.93 g         | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 17:40       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 58102        | 07/20/23 11:17       | CH      | EET MID |

Client Sample ID: SS08

Date Collected: 07/17/23 10:45

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-9

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         |     |            | 5.01 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 18:51       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 18:02       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 11:22       | CH      | EET MID |

Client Sample ID: SS09

Date Collected: 07/17/23 10:50

Date Received: 07/17/23 16:11

Lab Sample ID: 890-4956-10

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         |     |            | 4.96 g         | 5 mL         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 19:11       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 18:24       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 58012        | 07/19/23 10:11       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58102        | 07/20/23 11:28       | CH      | EET MID |

Eurofins Carlsbad



## Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-4956-1  
SDG: 03C1558251

Client Sample ID: SS10

Lab Sample ID: 890-4956-11

Date Collected: 07/17/23 10:55

Matrix: Solid

Date Received: 07/17/23 16:11

| 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         | 58152        | 07/20/23 14:04       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 19:32       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 18:46       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 58027        | 07/19/23 11:26       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58062        | 07/19/23 18:43       | CH      | EET MID |

Client Sample ID: SS11

Lab Sample ID: 890-4956-12

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/17/23 16:11

| 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         | 58153        | 07/20/23 14:20       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 22:37       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 19:07       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 58027        | 07/19/23 11:26       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58062        | 07/19/23 18:48       | CH      | EET MID |

Client Sample ID: SS12

Lab Sample ID: 890-4956-13

Date Collected: 07/17/23 13:00

Matrix: Solid

Date Received: 07/17/23 16:11

| 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         | 58153        | 07/20/23 14:20       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 58267        | 07/22/23 22:57       | SM      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 58326        | 07/24/23 09:30       | SM      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 58719        | 07/28/23 11:50       | AJ      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 58169        | 07/20/23 15:43       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 58603        | 07/27/23 19:29       | AJ      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 58027        | 07/19/23 11:26       | KS      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 58062        | 07/19/23 18:53       | 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 C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

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 C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

| 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

Eurofins Carlsbad

## Sample Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1  
SDG: 03C1558251

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-4956-1    | SS01             | Solid  | 07/17/23 10:00 | 07/17/23 16:11 | 12    |
| 890-4956-2    | SS01A            | Solid  | 07/17/23 10:05 | 07/17/23 16:11 | 13    |
| 890-4956-3    | SS07             | Solid  | 07/17/23 09:20 | 07/17/23 16:11 | 0.5   |
| 890-4956-4    | SS03             | Solid  | 07/17/23 09:25 | 07/17/23 16:11 | 0.5   |
| 890-4956-5    | SS04             | Solid  | 07/17/23 09:30 | 07/17/23 16:11 | 0.5   |
| 890-4956-6    | SS05             | Solid  | 07/17/23 09:35 | 07/17/23 16:11 | 0.5   |
| 890-4956-7    | SS06             | Solid  | 07/17/23 09:40 | 07/17/23 16:11 | 0.5   |
| 890-4956-8    | SS02             | Solid  | 07/17/23 10:40 | 07/17/23 16:11 | 0.5   |
| 890-4956-9    | SS08             | Solid  | 07/17/23 10:45 | 07/17/23 16:11 | 0.5   |
| 890-4956-10   | SS09             | Solid  | 07/17/23 10:50 | 07/17/23 16:11 | 0.5   |
| 890-4956-11   | SS10             | Solid  | 07/17/23 10:55 | 07/17/23 16:11 | 0.5   |
| 890-4956-12   | SS11             | Solid  | 07/17/23 11:00 | 07/17/23 16:11 | 0.5   |
| 890-4956-13   | SS12             | Solid  | 07/17/23 13:00 | 07/17/23 16:11 | 0.5   |



Environment Testing  
Xenco

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

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

www.xenco.com Page 1 of 2

|                  |                         |                         |                              |
|------------------|-------------------------|-------------------------|------------------------------|
| Project Manager: | Ben Beill               | Bill to: (if different) | Garrett Green                |
| Company Name:    | ENSOLUM, LLC            | Company Name:           | 3104 E Greene St             |
| Address:         | 3122 National Parks Hwy | Address:                | Carlsbad, NM 88220           |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | XTO Energy                   |
| Phone:           | 989-854-0852            | Email:                  | Garrett.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 C-1 Recycle Facility                                                        | Turn Around                                                   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |
| Project Number:          | 0301558251                                                                      | Pres. Code                                                    |                                                                           |
| Project Location:        | 32.213501-103.80040                                                             | Due Date:                                                     | 5 days                                                                    |
| Sampler's Name:          | Marianna O'Dell                                                                 | TAT starts the day received by the lab, if received by 4:30pm |                                                                           |
| PO #:                    |                                                                                 | Wet Ice:                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No       |
| SAMPLE RECEIPT           | Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID:                                               | 11W003                                                                    |
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | Correction Factor:                                            | -0.2                                                                      |
| Cooler Custody Seals:    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | Temperature Reading:                                          | 3.8                                                                       |
| Sample Custody Seals:    | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A         | Corrected Temperature:                                        | 3.0                                                                       |
| Total Containers:        |                                                                                 | Parameters                                                    | Chlorides<br>BTEX<br>TPH                                                  |



890-4856 Chain of Custody

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Pres. Code | ANALYSIS REQUEST | Preservative Codes                                                                                                                                                                                                                                                                | Sample Comments               |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| SS01                  | S      | 7/17/23      | 10:00        | 12'   | G         | 1         | X          |                  | None: NO<br>Cool: Cool<br>HCL: HC<br>H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub><br>H <sub>3</sub> PO <sub>4</sub> : HP<br>NaHSO <sub>4</sub> : NABIS<br>Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NASO <sub>3</sub><br>Zn Acetate+NaOH: Zn<br>NaOH+Ascorbic Acid: SAPC | Incident #:<br>NAPP2310041404 |
| SS01A                 |        |              | 10:05        | 13'   |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS02                  |        |              | 9:20         | 0.5'  |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS03                  |        |              | 9:25         |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS04                  |        |              | 9:30         |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS05                  |        |              | 9:35         |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS06                  |        |              | 9:40         |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS07                  |        |              | 10:40        |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS08                  |        |              | 10:45        |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |
| SS09                  |        |              | 10:50        |       |           |           | X          |                  |                                                                                                                                                                                                                                                                                   |                               |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas T1 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

|                              |                          |               |                              |                          |           |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time     | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 7-17-23 16:12 |                              |                          |           |
|                              |                          |               |                              |                          |           |
|                              |                          |               |                              |                          |           |
|                              |                          |               |                              |                          |           |





## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3354  
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 2 of 2

|                  |                         |                         |                              |
|------------------|-------------------------|-------------------------|------------------------------|
| Project Manager: | BAN Belli               | Bill to: (if different) | Garrett Green                |
| Company Name:    | Ensolium, LLC           | Company Name:           | XTO Energy                   |
| Address:         | 3122 National Parks Hwy | Address:                | 3104 E. Greend St            |
| City, State ZIP: | Carlsbad, NM 88220      | City, State ZIP:        | Carlsbad, NM 88220           |
| Phone:           | 989-854-0852            | Email:                  | Garrett.Green@ExxonMobil.com |

| Work Order Comments |                                                                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Program:            | UST/PST <input type="checkbox"/> PRPP <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: <input type="text"/>                                                                               |

[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 <sub>2</sub> | Na | Sr | Ti | Sn | U | V | Zn |  |
| Circle Method(s) and Metal(s) to be analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | TC1P / SPLP 6010 : | 8RCRA    | 5b | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Ti | U  |    |   |    |    |                  |    |    |    |    |   |   |    |  |
| <p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xerco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xerco 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 Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xerco, but not analyzed. These terms will be enforced unless previously negotiated.</p> |               |                    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |  |
| Hg: 1631 / 245.1 / 7470 / 7471                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |                    |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |                  |    |    |    |    |   |   |    |  |

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| <i>[Signature]</i>           | <i>[Signature]</i>       | 7.17.23   |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |



## Chain of Custody Record



**eurofins**

## Environmental Justice

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------|---|
| Client Information (Sub Contract Lab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  | Sampler                                                                             | Lab PM                                                                                                                                                                                                                                                                                                                                                                                                                      | Carrier Tracking No(s) | COC No      |   |
| Client Contact:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | Phone                                                                               | Kramer, Jessica                                                                                                                                                                                                                                                                                                                                                                                                             |                        | 890-1375 1  |   |
| Shipping/Receiving Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  | E-Mail                                                                              | Jessica.Kramer@et.eurofins.com                                                                                                                                                                                                                                                                                                                                                                                              | State of Origin:       | Page        |   |
| Eurofins Environment Testing South Central                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  | Accreditations Required (See note):                                                 | NE LAP - Texas                                                                                                                                                                                                                                                                                                                                                                                                              | New Mexico             | Page 1 of 2 |   |
| Address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  | Due Date Requested                                                                  | Job #:                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |             |   |
| City                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  | 7/21/2023                                                                           | 890-4956-1                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |             |   |
| Midland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  | TAT Requested (days)                                                                | Preservation Codes                                                                                                                                                                                                                                                                                                                                                                                                          |                        |             |   |
| State Zip                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |                                                                                     | A - HCL<br>B NaOH<br>C Zn Acetate<br>D Nitric Acid<br>E NaHSO <sub>4</sub><br>F MeOH<br>G Amchlor<br>H Ascorbic Acid<br>I Ice<br>J DI Water<br>K EDTA<br>L EDA<br>M Hexane<br>N None<br>O AsNaO <sub>2</sub><br>P Na <sub>2</sub> OAS<br>Q NaSCS<br>R Na <sub>2</sub> SO <sub>3</sub><br>S - H <sub>2</sub> SO <sub>4</sub><br>T TSP Dodecylhydrate<br>U Acetone<br>V MCAA<br>W - pH 4-5<br>Y Trizma<br>Z - other (Specify) |                        |             |   |
| TX 79701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  | PO #                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  | WO #                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Email                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  | Project #:                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Project Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  | SSOV#:                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| PLU C-1 RECYCLE FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Site:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Sample Identification - Client ID (Lab ID)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  | Field Filtered Sample (Yes or No)                                                   | Total Number of containers                                                                                                                                                                                                                                                                                                                                                                                                  |                        |             |   |
| Sample Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  | Perform MS/MSD (Yes or No)                                                          | Special Instructions/Note:                                                                                                                                                                                                                                                                                                                                                                                                  |                        |             |   |
| Sample Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  | 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH                                             |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Sample Type (C=Comp, G=grab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  | 8015MOD_Calc                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Matrix (W=Water, S=solid, O=waste/Oil, BT=Tissue, A=Allyl)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  | 300_ORGFMM_28D/DI_LEACH Chloride                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Preservation Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | 8021B/6036FP_Calc (MOD) BTEX                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  | Total_BTEX_GCV                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| SS01 (890-4956-1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS01A (890-4956-2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS02 (890-4956-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS03 (890-4956-4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS04 (890-4956-5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS05 (890-4956-6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS06 (890-4956-7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS07 (890-4956-8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| SS08 (890-4956-9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | X                                                                                   | X                                                                                                                                                                                                                                                                                                                                                                                                                           | X                      | X           | X |
| Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. |  |  |  |  |  |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Possible Hazard Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Unconfirmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  | Return To Client                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Deliverable Requested I II III IV Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  | Disposal By Lab                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Primary Deliverable Rank 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  | Archive For                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Empty Kit Relinquished by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  | Months                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Relinquished by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | Date/Time                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Relinquished by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | Company                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Relinquished by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | Received by                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Relinquished by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  | Date/Time                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |
| Cooler Temperature(s) °C and Other Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  | Company                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |             |   |

## Chain of Custody Record



## Environmental Testing

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

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4956-1

SDG Number: 03C1558251

Login Number: 4956

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.                                          | 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: 890-4956-1

SDG Number: 03C1558251

**Login Number: 4956**

**List Number: 2**

**Creator: Teel, Brianna**

**List Source: Eurofins Midland**

**List Creation: 07/19/23 12:08 PM**

| 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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/23/2023 11:49:56 AM

## JOB DESCRIPTION

PLU C-1 RECYCLE FACILITY

SDG NUMBER 03C1558251

## JOB NUMBER

890-5076-1

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



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8/23/2023 11:49:56 AM

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



Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Laboratory Job ID: 890-5076-1  
SDG: 03C1558251

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## Definitions/Glossary

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
 SDG: 03C1558251

### Qualifiers

#### GC VOA

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

#### GC Semi VOA

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

#### HPLC/IC

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

### Glossary

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

Case Narrative

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

Job ID: 890-5076-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-5076-1

Receipt

The samples were received on 8/10/2023 2:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH02 (890-5076-1), BH03 (890-5076-2), BH04 (890-5076-3), BH05 (890-5076-4) and BH06 (890-5076-5).

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: Surrogate recovery for the following samples were outside control limits: BH02 (890-5076-1), BH03 (890-5076-2), BH04 (890-5076-3), BH05 (890-5076-4), BH06 (890-5076-5), (880-31900-A-14-E), (880-31900-A-14-F MS) and (880-31900-A-14-G MSD). 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 880-60605 and analytical batch 880-60637 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60637/20), (CCV 880-60637/31) and (CCV 880-60637/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

|    |
|----|
| 1  |
| 2  |
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| 14 |

## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-5076-1  
SDG: 03C1558251

Client Sample ID: BH02

Lab Sample ID: 890-5076-1

Date Collected: 08/10/23 08:55

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 88        |           | 70 - 130 | 08/22/23 13:09 | 08/23/23 04:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 | 08/22/23 13:09 | 08/23/23 04:44 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 | mg/Kg |   |          | 08/23/23 12:26 | 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 |   |          | 08/22/23 14:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:04 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 142       | S1+       | 70 - 130 | 08/18/23 18:17 | 08/21/23 17:04 | 1       |
| o-Terphenyl    | 150       | S1+       | 70 - 130 | 08/18/23 18:17 | 08/21/23 17:04 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 307    |           | 5.01 | mg/Kg |   |          | 08/15/23 01:39 | 1       |

Client Sample ID: BH03

Lab Sample ID: 890-5076-2

Date Collected: 08/10/23 10:25

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:04 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81        |           | 70 - 130 | 08/22/23 13:09 | 08/23/23 05:04 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-5076-1  
SDG: 03C1558251

Client Sample ID: BH03

Lab Sample ID: 890-5076-2

Date Collected: 08/10/23 10:25

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 4

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 90        |           | 70 - 130 | 08/22/23 13:09 | 08/23/23 05:04 | 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 |   |          | 08/23/23 12:26 | 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 |   |          | 08/22/23 14:01 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7     | U         | 49.7     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:26 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U         | 49.7     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:26 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:26 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 141       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 17:26 | 1       |
| o-Terphenyl                          | 155       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 17:26 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1340   |           | 4.97 | mg/Kg |   |          | 08/15/23 02:00 | 1       |

Client Sample ID: BH04

Lab Sample ID: 890-5076-3

Date Collected: 08/10/23 10:50

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 82        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 05:24 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 | mg/Kg |   |          | 08/23/23 12:26 | 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 |   |          | 08/22/23 14:01 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

Client Sample ID: BH04

Lab Sample ID: 890-5076-3

Date Collected: 08/10/23 10:50

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

### 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 |   | 08/18/23 18:17 | 08/21/23 17:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3     | U         | 50.3     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3     | U         | 50.3     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 17:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 148       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 17:48 | 1       |
| o-Terphenyl                          | 159       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 17:48 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 182    |           | 4.98 | mg/Kg |   |          | 08/15/23 02:07 | 1       |

Client Sample ID: BH05

Lab Sample ID: 890-5076-4

Date Collected: 08/10/23 11:20

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 88        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 05:45 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 | mg/Kg |   |          | 08/23/23 12:26 | 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 |   |          | 08/22/23 14:01 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1     | U         | 50.1     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:10 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 142       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 18:10 | 1       |
| o-Terphenyl                          | 149       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 18:10 | 1       |

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## Client Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-5076-1  
SDG: 03C1558251

## Client Sample ID: BH05

## Lab Sample ID: 890-5076-4

Date Collected: 08/10/23 11:20

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 101    |           | 4.98 | mg/Kg |   |          | 08/15/23 02:14 | 1       |

## Client Sample ID: BH06

## Lab Sample ID: 890-5076-5

Date Collected: 08/10/23 11:50

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

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

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  | mg/Kg |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 |       |   | 08/22/23 13:09 | 08/23/23 06:05 | 1       |

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

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 | mg/Kg |   |          | 08/23/23 12:26 | 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 |   |          | 08/22/23 14:01 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.4     | U         | 50.4     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.4     | U         | 50.4     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.4     | U         | 50.4     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 18:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 136       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 18:31 | 1       |
| o-Terphenyl                          | 155       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 18:31 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 327    |           | 5.04 | mg/Kg |   |          | 08/15/23 02:22 | 1       |

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## Surrogate Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-5076-1                        | BH02                   | 88                                             | 88                |
| 890-5076-1 MS                     | BH02                   | 95                                             | 87                |
| 890-5076-1 MSD                    | BH02                   | 94                                             | 87                |
| 890-5076-2                        | BH03                   | 81                                             | 90                |
| 890-5076-3                        | BH04                   | 82                                             | 97                |
| 890-5076-4                        | BH05                   | 88                                             | 95                |
| 890-5076-5                        | BH06                   | 95                                             | 94                |
| LCS 880-60818/1-A                 | Lab Control Sample     | 87                                             | 95                |
| LCSD 880-60818/2-A                | Lab Control Sample Dup | 99                                             | 86                |
| MB 880-60732/5-A                  | Method Blank           | 99                                             | 119               |
| MB 880-60818/5-A                  | Method Blank           | 102                                            | 107               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| 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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-31900-A-14-F MS     | Matrix Spike           | 163 S1+                                        | 154 S1+           |
| 880-31900-A-14-G MSD    | Matrix Spike Duplicate | 157 S1+                                        | 151 S1+           |
| 890-5076-1              | BH02                   | 142 S1+                                        | 150 S1+           |
| 890-5076-2              | BH03                   | 141 S1+                                        | 155 S1+           |
| 890-5076-3              | BH04                   | 148 S1+                                        | 159 S1+           |
| 890-5076-4              | BH05                   | 142 S1+                                        | 149 S1+           |
| 890-5076-5              | BH06                   | 136 S1+                                        | 155 S1+           |
| LCS 880-60605/2-A       | Lab Control Sample     | 96                                             | 108               |
| LCSD 880-60605/3-A      | Lab Control Sample Dup | 102                                            | 117               |
| MB 880-60605/1-A        | Method Blank           | 155 S1+                                        | 171 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60732/5-A  
Matrix: Solid  
Analysis Batch: 60782

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 60732

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/21/23 12:45 | 08/22/23 16:38 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 08/21/23 12:45 | 08/22/23 16:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 119          |              | 70 - 130 | 08/21/23 12:45 | 08/22/23 16:38 | 1       |

Lab Sample ID: MB 880-60818/5-A  
Matrix: Solid  
Analysis Batch: 60782

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 60818

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 08/22/23 13:09 | 08/23/23 04:15 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 08/22/23 13:09 | 08/23/23 04:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107          |              | 70 - 130 | 08/22/23 13:09 | 08/23/23 04:15 | 1       |

Lab Sample ID: LCS 880-60818/1-A  
Matrix: Solid  
Analysis Batch: 60782

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 60818

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09278    |               | mg/Kg |   | 93   | 70 - 130    |
| Toluene             | 0.100       | 0.09141    |               | mg/Kg |   | 91   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09066    |               | mg/Kg |   | 91   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1692     |               | mg/Kg |   | 85   | 70 - 130    |
| o-Xylene            | 0.100       | 0.07807    |               | mg/Kg |   | 78   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 87            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-60818/2-A  
Matrix: Solid  
Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 60818

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100       | 0.08368     |                | mg/Kg |   | 84   | 70 - 130    | 10  | 35        |

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## QC Sample Results

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
 SDG: 03C1558251

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

Lab Sample ID: LCSD 880-60818/2-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60818

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Toluene             | 0.100       | 0.08323     |                | mg/Kg |   | 83   | 70 - 130    | 9   | 35        |
| Ethylbenzene        | 0.100       | 0.07555     |                | mg/Kg |   | 76   | 70 - 130    | 18  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1427      |                | mg/Kg |   | 71   | 70 - 130    | 17  | 35        |
| o-Xylene            | 0.100       | 0.07783     |                | mg/Kg |   | 78   | 70 - 130    | 0   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 86             |                | 70 - 130 |

Lab Sample ID: 890-5076-1 MS

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: BH02

Prep Type: Total/NA

Prep Batch: 60818

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00202      | U                | 0.0996      | 0.09593   |              | mg/Kg |   | 96   | 70 - 130    |
| Toluene             | <0.00202      | U                | 0.0996      | 0.09713   |              | mg/Kg |   | 98   | 70 - 130    |
| Ethylbenzene        | <0.00202      | U                | 0.0996      | 0.09368   |              | mg/Kg |   | 94   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.199       | 0.1845    |              | mg/Kg |   | 93   | 70 - 130    |
| o-Xylene            | <0.00202      | U                | 0.0996      | 0.08567   |              | mg/Kg |   | 86   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87           |              | 70 - 130 |

Lab Sample ID: 890-5076-1 MSD

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: BH02

Prep Type: Total/NA

Prep Batch: 60818

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.0994      | 0.09673    |               | mg/Kg |   | 97   | 70 - 130    | 1   | 35        |
| Toluene             | <0.00202      | U                | 0.0994      | 0.09088    |               | mg/Kg |   | 91   | 70 - 130    | 7   | 35        |
| Ethylbenzene        | <0.00202      | U                | 0.0994      | 0.08148    |               | mg/Kg |   | 82   | 70 - 130    | 14  | 35        |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.199       | 0.1538     |               | mg/Kg |   | 77   | 70 - 130    | 18  | 35        |
| o-Xylene            | <0.00202      | U                | 0.0994      | 0.08412    |               | mg/Kg |   | 84   | 70 - 130    | 2   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 94            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87            |               | 70 - 130 |

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

Lab Sample ID: MB 880-60605/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60605

| 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 |   | 08/18/23 18:17 | 08/21/23 07:55 | 1       |

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# QC Sample Results

Client: Ensolum  
 Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
 SDG: 03C1558251

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

Lab Sample ID: MB 880-60605/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60605

| 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 |   | 08/18/23 18:17 | 08/21/23 07:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 08/18/23 18:17 | 08/21/23 07:55 | 1       |
| Surrogate                            | MB MB     |           | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
|                                      | %Recovery | Qualifier |          |       |   |                |                |         |
| 1-Chlorooctane                       | 155       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 07:55 | 1       |
| o-Terphenyl                          | 171       | S1+       | 70 - 130 |       |   | 08/18/23 18:17 | 08/21/23 07:55 | 1       |

Lab Sample ID: LCS 880-60605/2-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60605

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
|                                      |             |            |               |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1006       |               | mg/Kg |   | 101  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 915.4      |               | mg/Kg |   | 92   | 70 - 130    |
| Surrogate                            | LCS LCS     |            | Limits        |       |   |      |             |
|                                      | %Recovery   | Qualifier  |               |       |   |      |             |
| 1-Chlorooctane                       | 96          |            | 70 - 130      |       |   |      |             |
| o-Terphenyl                          | 108         |            | 70 - 130      |       |   |      |             |

Lab Sample ID: LCSD 880-60605/3-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60605

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
|                                      |             |             |                |       |   |      |             |     |           |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 951.8       |                | mg/Kg |   | 95   | 70 - 130    | 6   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 844.3       |                | mg/Kg |   | 84   | 70 - 130    | 8   | 20        |
| Surrogate                            | LCSD LCSD   |             | Limits         |       |   |      |             |     |           |
|                                      | %Recovery   | Qualifier   |                |       |   |      |             |     |           |
| 1-Chlorooctane                       | 102         |             | 70 - 130       |       |   |      |             |     |           |
| o-Terphenyl                          | 117         |             | 70 - 130       |       |   |      |             |     |           |

Lab Sample ID: 880-31900-A-14-F MS

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60605

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
|                                      |               |                  |             |           |              |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | <50.3         | U                | 997         | 1095      |              | mg/Kg |   | 106  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <50.3         | U                | 997         | 1240      |              | mg/Kg |   | 121  | 70 - 130    |
| Surrogate                            | MS MS         |                  | Limits      |           |              |       |   |      |             |
|                                      | %Recovery     | Qualifier        |             |           |              |       |   |      |             |
| 1-Chlorooctane                       | 163           | S1+              | 70 - 130    |           |              |       |   |      |             |
| o-Terphenyl                          | 154           | S1+              | 70 - 130    |           |              |       |   |      |             |

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## QC Sample Results

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

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

Lab Sample ID: 880-31900-A-14-G MSD

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60605

| 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 | <50.3         | U                | 997         | 950.2      |               | mg/Kg |   | 91   | 70 - 130    | 14  | 20        |
| Diesel Range Organics (Over C10-C28) | <50.3         | U                | 997         | 1198       |               | mg/Kg |   | 117  | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 157           | S1+              | 70 - 130    |            |               |       |   |      |             |     |           |
| o-Terphenyl                          | 151           | S1+              | 70 - 130    |            |               |       |   |      |             |     |           |

### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60092/1-A

Matrix: Solid

Analysis Batch: 60268

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 |   |          | 08/15/23 01:17 | 1       |

Lab Sample ID: LCS 880-60092/2-A

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 257.5      |               | mg/Kg |   | 103  | 90 - 110    |

Lab Sample ID: LCSD 880-60092/3-A

Matrix: Solid

Analysis Batch: 60268

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         | 258.5       |                | mg/Kg |   | 103  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-5076-1 MS

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: BH02

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 307           |                  | 251         | 558.4     |              | mg/Kg |   | 100  | 90 - 110    |

Lab Sample ID: 890-5076-1 MSD

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: BH02

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 307           |                  | 251         | 559.7      |               | mg/Kg |   | 101  | 90 - 110    | 0   | 20        |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-5076-1  
SDG: 03C1558251

## GC VOA

## Prep Batch: 60732

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-60732/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 60782

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5076-1         | BH02                   | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-2         | BH03                   | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-3         | BH04                   | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-4         | BH05                   | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-5         | BH06                   | Total/NA  | Solid  | 8021B  | 60818      |
| MB 880-60732/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 60732      |
| MB 880-60818/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 60818      |
| LCS 880-60818/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 60818      |
| LCSD 880-60818/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-1 MS      | BH02                   | Total/NA  | Solid  | 8021B  | 60818      |
| 890-5076-1 MSD     | BH02                   | Total/NA  | Solid  | 8021B  | 60818      |

## Prep Batch: 60818

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5076-1         | BH02                   | Total/NA  | Solid  | 5035   |            |
| 890-5076-2         | BH03                   | Total/NA  | Solid  | 5035   |            |
| 890-5076-3         | BH04                   | Total/NA  | Solid  | 5035   |            |
| 890-5076-4         | BH05                   | Total/NA  | Solid  | 5035   |            |
| 890-5076-5         | BH06                   | Total/NA  | Solid  | 5035   |            |
| MB 880-60818/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-60818/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-60818/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-5076-1 MS      | BH02                   | Total/NA  | Solid  | 5035   |            |
| 890-5076-1 MSD     | BH02                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 60911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5076-1    | BH02             | Total/NA  | Solid  | Total BTEX |            |
| 890-5076-2    | BH03             | Total/NA  | Solid  | Total BTEX |            |
| 890-5076-3    | BH04             | Total/NA  | Solid  | Total BTEX |            |
| 890-5076-4    | BH05             | Total/NA  | Solid  | Total BTEX |            |
| 890-5076-5    | BH06             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 60605

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-5076-1           | BH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5076-2           | BH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5076-3           | BH04                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5076-4           | BH05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-5076-5           | BH06                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-60605/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-60605/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-60605/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-31900-A-14-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-31900-A-14-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITYJob ID: 890-5076-1  
SDG: 03C1558251

## GC Semi VOA

## Analysis Batch: 60637

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-5076-1           | BH02                   | Total/NA  | Solid  | 8015B NM | 60605      |
| 890-5076-2           | BH03                   | Total/NA  | Solid  | 8015B NM | 60605      |
| 890-5076-3           | BH04                   | Total/NA  | Solid  | 8015B NM | 60605      |
| 890-5076-4           | BH05                   | Total/NA  | Solid  | 8015B NM | 60605      |
| 890-5076-5           | BH06                   | Total/NA  | Solid  | 8015B NM | 60605      |
| MB 880-60605/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM | 60605      |
| LCS 880-60605/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 60605      |
| LCSD 880-60605/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 60605      |
| 880-31900-A-14-F MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 60605      |
| 880-31900-A-14-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 60605      |

## Analysis Batch: 60823

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5076-1    | BH02             | Total/NA  | Solid  | 8015 NM |            |
| 890-5076-2    | BH03             | Total/NA  | Solid  | 8015 NM |            |
| 890-5076-3    | BH04             | Total/NA  | Solid  | 8015 NM |            |
| 890-5076-4    | BH05             | Total/NA  | Solid  | 8015 NM |            |
| 890-5076-5    | BH06             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 60092

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5076-1         | BH02                   | Soluble   | Solid  | DI Leach |            |
| 890-5076-2         | BH03                   | Soluble   | Solid  | DI Leach |            |
| 890-5076-3         | BH04                   | Soluble   | Solid  | DI Leach |            |
| 890-5076-4         | BH05                   | Soluble   | Solid  | DI Leach |            |
| 890-5076-5         | BH06                   | Soluble   | Solid  | DI Leach |            |
| MB 880-60092/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-60092/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-60092/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-5076-1 MS      | BH02                   | Soluble   | Solid  | DI Leach |            |
| 890-5076-1 MSD     | BH02                   | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 60268

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5076-1         | BH02                   | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-2         | BH03                   | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-3         | BH04                   | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-4         | BH05                   | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-5         | BH06                   | Soluble   | Solid  | 300.0  | 60092      |
| MB 880-60092/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 60092      |
| LCS 880-60092/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 60092      |
| LCSD 880-60092/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-1 MS      | BH02                   | Soluble   | Solid  | 300.0  | 60092      |
| 890-5076-1 MSD     | BH02                   | Soluble   | Solid  | 300.0  | 60092      |

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

Client Sample ID: BH02  
Date Collected: 08/10/23 08:55  
Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-1  
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         |     |            | 4.96 g         | 5 mL         | 60818        | 08/22/23 13:09       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 60782        | 08/23/23 04:44       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 60911        | 08/23/23 12:26       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 60823        | 08/22/23 14:01       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 60605        | 08/18/23 18:17       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 60637        | 08/21/23 17:04       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 60092        | 08/14/23 09:35       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 60268        | 08/15/23 01:39       | SMC     | EET MID |

Client Sample ID: BH03  
Date Collected: 08/10/23 10:25  
Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-2  
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         |     |            | 4.99 g         | 5 mL         | 60818        | 08/22/23 13:09       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 60782        | 08/23/23 05:04       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 60911        | 08/23/23 12:26       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 60823        | 08/22/23 14:01       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 60605        | 08/18/23 18:17       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 60637        | 08/21/23 17:26       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 60092        | 08/14/23 09:35       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 60268        | 08/15/23 02:00       | SMC     | EET MID |

Client Sample ID: BH04  
Date Collected: 08/10/23 10:50  
Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-3  
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         | 60818        | 08/22/23 13:09       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 60782        | 08/23/23 05:24       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 60911        | 08/23/23 12:26       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 60823        | 08/22/23 14:01       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 60605        | 08/18/23 18:17       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 60637        | 08/21/23 17:48       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 60092        | 08/14/23 09:35       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 60268        | 08/15/23 02:07       | SMC     | EET MID |

Client Sample ID: BH05  
Date Collected: 08/10/23 11:20  
Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-4  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 60818        | 08/22/23 13:09       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 60782        | 08/23/23 05:45       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 60911        | 08/23/23 12:26       | AJ      | EET MID |

Eurofins Carlsbad

## Lab Chronicle

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

**Client Sample ID: BH05**

**Lab Sample ID: 890-5076-4**

**Date Collected: 08/10/23 11:20**

**Matrix: Solid**

**Date Received: 08/10/23 14:28**

| 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          |                |              | 60823        | 08/22/23 14:01       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 60605        | 08/18/23 18:17       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 60637        | 08/21/23 18:10       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 60092        | 08/14/23 09:35       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 60268        | 08/15/23 02:14       | SMC     | EET MID |

**Client Sample ID: BH06**

**Lab Sample ID: 890-5076-5**

**Date Collected: 08/10/23 11:50**

**Matrix: Solid**

**Date Received: 08/10/23 14:28**

| 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         | 60818        | 08/22/23 13:09       | EL      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 60782        | 08/23/23 06:05       | AJ      | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 60911        | 08/23/23 12:26       | AJ      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 60823        | 08/22/23 14:01       | SM      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.92 g         | 10 mL        | 60605        | 08/18/23 18:17       | TKC     | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 60637        | 08/21/23 18:31       | SM      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 60092        | 08/14/23 09:35       | SMC     | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          | 50 mL          | 50 mL        | 60268        | 08/15/23 02:22       | SMC     | 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 C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

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 |

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

## Method Summary

Client: Ensolum  
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

| 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 C-1 RECYCLE FACILITY

Job ID: 890-5076-1  
SDG: 03C1558251

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5076-1    | BH02             | Solid  | 08/10/23 08:55 | 08/10/23 14:28 | 1     |
| 890-5076-2    | BH03             | Solid  | 08/10/23 10:25 | 08/10/23 14:28 | 4     |
| 890-5076-3    | BH04             | Solid  | 08/10/23 10:50 | 08/10/23 14:28 | 3     |
| 890-5076-4    | BH05             | Solid  | 08/10/23 11:20 | 08/10/23 14:28 | 3     |
| 890-5076-5    | BH06             | Solid  | 08/10/23 11:50 | 08/10/23 14:28 | 3     |



## Eurofine Carlebad

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

## Chain of Custody Record



**eurofins**  
Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5076-1

SDG Number: 03C1558251

Login Number: 5076

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.                                          | 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: 890-5076-1

SDG Number: 03C1558251

Login Number: 5076

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 08/14/23 08:11 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").  | N/A    |         |



## APPENDIX E

### NMOCD Notifications

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## Foust, Bryan Jacob

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**From:** Green, Garrett J  
**Sent:** Tuesday, May 30, 2023 10:24 PM  
**To:** Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD  
**Cc:** DelawareSpills /SM; Pennington, Shelby G  
**Subject:** XTO 24 Hour Notification - PLU C1 Water Line.

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

All,

This is notification of a release greater than 25 barrels that occurred yesterday at the PLU C1 Water Line near the GPS coordinates given below. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.21393,-103.86066

Thank you,

Thank you,

**Garrett Green**  
Environmental Coordinator  
Delaware Business Unit  
(575) 200-0729  
[Garrett.Green@ExxonMobil.com](mailto:Garrett.Green@ExxonMobil.com)

XTO Energy, Inc.  
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

**From:** [Hamlet, Robert, EMNRD](#)  
**To:** [Collins, Melanie Suzanne](#)  
**Cc:** [Green, Garrett J](#); [DelawareSpills /SM](#); [Ben Belill](#); [Ashley Ager](#); [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)  
**Subject:** (Extension Approval) - XTO - PLU C-1 Recycle Facility - Incident Number NAPP2316047464  
**Date:** Friday, August 25, 2023 5:39:31 PM  
**Attachments:** [image003.png](#)

---

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

RE: Incident #**NAPP2316047464**

**Melanie,**

Your request for an extension to **November 25th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Friday, August 25, 2023 3:27 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] XTO - Extension Request - PLU C-1 Recycle Facility - Incident Number NAPP2316047464

---

**From:** Collins, Melanie <[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)>  
**Sent:** Friday, August 25, 2023 12:19 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Green, Garrett J <[garrett.green@exxonmobil.com](mailto:garrett.green@exxonmobil.com)>; [DelawareSpills /SM](#) <[DelawareSpills@exxonmobil.com](mailto:DelawareSpills@exxonmobil.com)>; [bbelill@ensolum.com](#); [Ashley Ager](#) <[aager@ensolum.com](mailto:aager@ensolum.com)>; [Ashley Giovengo](#) <[agiovengo@ensolum.com](mailto:agiovengo@ensolum.com)>  
**Subject:** [EXTERNAL] XTO - Extension Request - PLU C-1 Recycle Facility - Incident Number NAPP2316047464

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

All,

XTO is requesting an extension for the current deadline of August 27, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU C-1 Recycle Facility (Incident Number NAPP2316047464). The release occurred on May 27, 2023, and initial site assessment and delineation activities have been conducted. Based on delineation soil sample laboratory analytical results, excavation of impacted soil is needed. In order to complete delineation and excavation activities, review laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until November 25, 2023.

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

**From:** [Collins, Melanie](#)  
**To:** [Ben Belill](#); [Green, Garrett J](#)  
**Subject:** FW: XTO - Sampling Notification (Week of 8/7/23 - 8/11/23)  
**Date:** Monday, August 28, 2023 9:32:07 AM  
**Attachments:** [image001.png](#)

---

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

Here you go!

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

432-556-3756

---

**From:** Collins, Melanie  
**Sent:** Thursday, August 3, 2023 10:20 AM  
**To:** ocd.enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov) <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov) <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov) <Jocelyn.Harimon@emnrd.nm.gov>  
**Cc:** Green, Garrett J <garrett.green@exxonmobil.com>  
**Subject:** XTO - Sampling Notification (Week of 8/7/23 - 8/11/23)

All,

XTO plans to complete final sampling activities at the sites listed below for the week of August 7, 2023.

Thursday

- PLU C-1 Recycle Facility / nAPP2316047464

Friday

- BEU 70 / NAPP2318139530

Thank you,

*Melanie Collins*



Environmental Technician

[melanie.collins@exxonmobil.com](mailto:melanie.collins@exxonmobil.com)

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 287960

CONDITIONS

|                                                                                 |                                                               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------|
| Operator:<br><br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br><br>5380                                            |
|                                                                                 | Action Number:<br><br>287960                                  |
|                                                                                 | Action Type:<br><br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| scwells    | If you want to get reclamation approval when you submit this closure report, OCD is looking for the following: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. Pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and revegetation plan. | 3/6/2024       |