| Form | C-141 |
|--------|-------|
| Page 5 | |

State of New Mexico Oil Conservation Division

| Incident ID | NMAP1826970471 |
|----------------|----------------|
| District RP | 2RP-4984 |
| Facility ID | |
| Application ID | pMAP1826970173 |

Received by OCD: 9/9/2022 9:15:58 AM

Remediation Plan

| Remediation Plan Checklist: Each of the following items must be included in | n 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 p | art of any request for deferral of remediation. | | |
| Contamination must be in areas immediately under or around production equipments deconstruction. | uipment where remediation could cause a major facility | | |
| Extents of contamination must be fully delineated. | | | |
| Contamination does not cause an imminent risk to human health, the environ | nment, or groundwater. | | |
| Signature: Date: | se notifications and perform corrective actions for releases 41 report by the OCD does not relieve the operator of ate contamination that pose a threat to groundwater, of a C-141 report does not relieve the operator of | | |
| OCD Only | 48 | | |
| Received by: Jocelyn Harimon Date: 0 | 9/09/2022 | | |
| ☐ Approved | ☐ Denied ☐ Deferral Approved | | |
| Signature: Date: 9 | 19/22 | | |

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 | NMAP1826970471 |
|----------------|----------------|
| District RP | 2RP-4984 |
| Facility ID | N/A |
| Application ID | pMAP1826970173 |

Release Notification

Responsible Party

| Responsible Party: WPX Energy/ RKI | OGRID: 246289 |
|---|---|
| Contact Name: Jim Raley | Contact Telephone: 575-689-7597 |
| Contact email: james.raley@wpxenergy.com | Incident # (assigned by OCD) NMAP1826970471 |
| Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220 | |

Location of Release Source

Latitude: 32.0069847 Longitude: -103.9574661

(NAD 83 in decimal degrees to 5 decimal places)

| Site Name: E Date Release | | | | | Site Type: Oil API#: 30-015-25020 | 0 |
|----------------------------------|-----------|-----------|-----------------|-------|---|---|
| Unit Letter | Section | Township | Range | | County | |
| N | 26 | 26S | 29E | Edd | dy | |
| Surface Owne | er: State | Federal T | ribal Private (| Name: | |) |
| | | | Nature and | d Vo | lume of Release | |
| | | | | | idilic of itelease | |

| Crude Oil | Volume Released (bbls) 3 | Volume Recovered (bbls) 0 |
|------------------|---|---|
| Produced Water | Volume Released (bbls) 5 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ⊠ Yes □ No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release | | |
| | " nipple located on wellhead allowed small hole to c pad was also impacted approx 50' on east side of we | |

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impacted area off-site.

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| Incident ID | NMAP1826970471 |
|----------------|----------------|
| District RP | 2RP-4984 |
| Facility ID | N/A |
| Application ID | pMAP1826970173 |

| | , |
|--|---|
| Was this a major release as defined by | If YES, for what reason(s) does the responsible party consider this a major release? |
| 19.15.29.7(A) NMAC? | |
| ☐ Yes ⊠ No | |
| L les Mino | |
| | |
| If YES, was immediate no | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| in 125, was immediate in | sace given to the edgi. By whom, it whom when the ey what means (phone, email, etc). |
| | |
| L | Initial Degrange |
| | Initial Response |
| The responsible | party must undertake the following actions immediately unless they could create a safety hazard that would result in injury |
| | |
| <u> </u> | ease has been stopped. |
| | as been secured to protect human health and the environment. |
| | ave been contained via the use of berms or dikes, absorbent pads, or other containment devices. |
| All free liquids and re | ecoverable materials have been removed and managed appropriately. |
| If all the actions described | d above have <u>not</u> been undertaken, explain why: |
| | |
| | |
| | |
| | |
| | |
| | IAC the responsible party may commence remediation immediately after discovery of a release. If remediation |
| | a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| I hereby certify that the info | rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and |
| | required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have |
| | gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In |
| addition, OCD acceptance o and/or regulations. | of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws |
| | |
| Printed Name: Jim Raley | Title: Environmental Specialist |
| / - | |
| Van Ku | |
| Signature: | Date: 9/25/2018 |
| email: james.raley@wpxe | <u>energy.com</u> Telephone: 575-689-7597 |
| oman jamesirare y e wpine | Siergy teem |
| | |
| OCD Only | 11110 |
| Received by: | Date: 09/26/18 |
| | |

Incident ID NMAP1826970471 District RP 2RP-4984 Facility ID pMAP1826970173 Application ID

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? | 51-100 (ft bgs) | | |
|---|-----------------|--|--|
| Did this release impact groundwater or surface water? | ☐ Yes ✓ No | | |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ✓ 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)? | ☐ Yes ✓ No | | |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☑ 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? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☑ No | | |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ✓ No | | |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ✓ Yes ☐ No | | |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☑ No | | |
| Did the release impact areas not on an exploration, development, production, or storage site? | ✓ Yes 🗌 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 | | | |

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.

Topographic/Aerial maps

Photographs including date and GIS information

✓ Laboratory data including chain of custody

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Page 4 Oil Conservation Division

| | ruge s of 1 |
|----------------|----------------|
| Incident ID | NMAP1826970471 |
| District RP | 2RP-4984 |
| Facility ID | |
| Application ID | pMAP1826970173 |

| 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: Joseph S. Hernandez, Ensolum | Title: Senior Geologist | | |
| Signature: | Date:9/9/2022 | | |
| email: jhernandez@ensolum.com | Telephone:281-702-2329 | | |
| | | | |
| OCD Only | | | |
| Received by: Jocelyn Harimon | Date:09/09/2022 | | |

ceived by OCD: 9/9/2022 9:15:58 AM
State of New Mexico

| Incident ID | NMAP1826970471 |
|----------------|----------------|
| District RP | 2RP-4984 |
| Facility ID | |
| Application ID | pMAP1826970173 |

Remediation Plan

| Remediation Plan Checklist: Each of the following items must b | e 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) | | | | | | | | | |
| | | | | | | | | | |
| <u>Deferral Requests Only</u> : Each of the following items must be con | nfirmed as part of any request for deferral of remediation. | | | | | | | | |
| Contamination must be in areas immediately under or around predeconstruction. | roduction equipment where remediation could cause a major facility | | | | | | | | |
| ☐ Extents of contamination must be fully delineated. | | | | | | | | | |
| Contamination does not cause an imminent risk to human health | n, the environment, or groundwater. | | | | | | | | |
| | e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of | | | | | | | | |
| Printed Name: Joseph S. Hernandez, Ensolum | Title: Senior Geologist | | | | | | | | |
| Signature: | Date:9/9/2022 | | | | | | | | |
| email:jhernandez@ensolum.com | Telephone: 281-702-2329 | | | | | | | | |
| | | | | | | | | | |
| OCD Only | | | | | | | | | |
| Received by: Jocelyn Harimon | Date:09/09/2022 | | | | | | | | |
| ☐ Approved | Approval Denied Deferral Approved | | | | | | | | |
| Circultura | Deter | | | | | | | | |
| Signature: | <u>Date:</u> | | | | | | | | |



REMEDIATION WORK PLAN ADDENDUM

Site Location:

EP USA #005 Eddy County, New Mexico Incident Number NMAP1826970471

September 9, 2022 Ensolum Project No. 03A1987013

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

Joseph S. Hernandez Senior Geologist Ashley Ager, MS, PG
Program Director, Geologist

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Appendix H: Email Correspondence

1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan Addendum (RWPA) in response to a Remediation Work Plan (RWP) that was denied by the New Mexico Oil Conservation Division (NMOCD) on August 9, 2022 for the following reason:

"Remediation Plan Denied. Please provide documentation that the gauged well is C-02038. Extent of release has not been adequately delineated to approve installation of a liner. Please provide soil data between 4' and 11' for locations PH01 and PH03. Please resubmit a revised Remediation Plan by September 9, 2022."

This RWPA summarizes previous corrective actions performed, additional site assessment and soil sampling activities conducted to date by WPX Permian Energy, LLC (WPX) at the EP USA #005 (hereinafter referred to as the "Site") in Unit N, Section 26, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1 in Appendix A). All previous remediation activities and soil sample analytical results can be referenced in the original Closure Request (CR) and RWP, denied by the NMOCD on July 29, 2020 and August 9, 2022, respectively. Based on the current status of the Site, WPX respectfully submits this RWPA, which includes additional soil sampling activities and supplemental depth to groundwater measurement data requested in the denial and re-proposes installing a 20-mil impermeable liner in the subsurface to mitigate residual chloride impacts associated with a reportable release of produced water and crude oil at the Site.

1.1 Site Description & Release Background

The Site is located within Eddy County, New Mexico (32.0069847°N, 103.9574661°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (Figure 1 in Appendix A).

On September 17, 2018, interior corrosion on a 1-inch nipple located on a wellhead allowed a small hole to develop and release approximately 3 barrels (bbls) of oil and 5 bbls of produced water to the well pad and adjacent pasture. No fluids were able to be recovered immediately. WPX reported the release to the NMOCD with a subsquent Corrective Action Form C-141 (Form C-141) on September 25, 2018. The release was assigned Incident Number NMAP1826970471.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A.**

Depth to groundwater at the Site is between 51 and 100 feet below ground surface (bgs) based a recent measurement of a nearby well on the JC Williams Yard, which was confirmed to be the well measured on the Groundwater Sampling Form provided in the RWP. The well does not appear to have an identification number corresponding to the New Mexico Office of the State Engineer (NMOSE) well records. However, Ensolum obtained property access and visibly observed the water well, then measured depth to water on August 15, 2022. The well is located approximately 0.31 miles northeast of the Site, which is closer than water well C-02038 (presumed to be the well location for the original groundwater measurement) located approximately 0.46 miles northeast of the Site. Ensolum measured depth to groundwater in the JC William Yard Well as 82.9 feet bgs. The location of the JC Williams well is provided on **Figure 1 in Appendix A**. The Groundwater Measurement Form summarizing findings is provided as **Appendix B**.

The closest surface water to the Site is the Pecos River, located approximately 4,890 feet south the Site. The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland and greater than 1,000 feet to a freshwater well or spring. The Site is not within a 100-year floodplain. Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a high potential karst area. It should be noted that a pedestrian karst survey was performed by Southwest Geophysical Consulting, LLC (SGC) on September 14, 2020 and confirmed the absence of surface karst features and the limited likelihood of shallow subsurface karst features. The Cave and Karst Resource Inventory Report is provided in **Appendix C**.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

2.0 SOIL SAMPLING AND REMEDIAL ACTIONS

Based on the CR remediation summary, 132 yards were excavated from the pasture to a depth of 2 feet to 4 feet with confirmation soil sample results complying with the reclamation standard or applicable Table 1 Closure Criteria based on results of a karst survey. Delineation samples collected on pad also complied with the applied Table 1 Closure Criteria. The NMOCD would not accept a karst survey conducted by a BLM-approved karst specialist for evaluation of karst geology required for site characterization and the site was re-evaluated by WPX. Between May 9, 2022 and June 17, 2022, WPX conducted additional delineation soil sampling and remediation activities for Incident Number NMAP1826970471 to address the Site under the most stringent Closure Criteria, which assumes the Site is unstable due to subsurface karst. An additional 90 cubic yards of soil were removed, totaling 222 cubic yards to date, and disposed of under WPX-approved manifests.

2.1 Delineation Activities

Between May 9 and 10, 2022 delineation activities were conducted by Ensolum to further characterize the subject release by verifying the presence or absence of impacted soil as compared to the most stringent Closure Criteria. Delineation samples were collected in potholes advanced with heavy equipment (samples designated PH). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (PH01 through PH10): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 1 foot bgs) and the greatest depth (ranging from 1 foot bgs to 11 feet bgs). The location of the delineation samples are shown in Figure 2 in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (Appendix D). The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation during delineation activities is included in **Appendix** E.

September 9, 2022 Page 3

2.2 Excavation Activities

On June 17, 2022, additional excavation activities were conducted by Ensolum to remove impacted soil associated with the subject release via heavy equipment. Excavation activites were directed by field sceening soil within the subject release area for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips.

Following removal of impacted soil, Ensolum collected three composite soil samples at a sampling frequency of 200 square feet from the sidewalls of the excavation to confirm impacted soil above the Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 4 feet bgs.

The approximate extent of excavation and confirmation soil sample locations is provided on **Figure 3 Appendix A**. Photographic documentation of remediation activities is included in **Appendix E**.

2.3 Continued Delineation Activities

Although soil boring logs with soil descriptions and field screening results were previously provided, delineation activities were continued by Ensolum on August 16, 2022 to provide additional laboratory analytical data associated with delineation soil sample areas PH01 and PH03 between 4 and 11 feet bgs. A total of three soil samples were collected within 5 lateral feet of the original delineation soil sample locations at 5, 7, and 9 feet bgs. The soil samples were collected, handled and analyzed as previously described. Photographic documentation during delineation activities is included in **Appendix E.**

3.0 SOIL SAMPLING RESULTS

Laboratory analytical results for the new delineation soil samples collected from PH01 and PH03 confirmed previously submitted data indicating that vertical impacts exceeding the most stringent Closure Criteria do not exceed 11 feet bgs within the subject release extent and are, in fact, shallower near PH01, ending near 7 feet bgs. As previously reported, laboratory analytical results for chloride in delineation soil samples associated with potholes PH02 and PH10 indicate more shallow vertical impacts do not extend beyond 1 to 3 feet bgs for chloride and TPH, respectively. Laboratory analytical results for delineation soil samples PH05 through PH09 indicated constituents of concern (COCs) were within the applicable Closure Criteria and will assist with defining a clean lateral excavation boundary.

Laboratory analytical results for excavation soil samples SW01 through SW03 indicated COCs were within the Closure Criteria and indicate a clean lateral southern excavation boundary.

Laboratory analytical results are summarized in the **Table 1** included in **Appendix F**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix G**. **Appendix H** provides correspondence email notification receipts associated with the subject release.

4.0 REMEDIATION WORK PLAN

The primary objectives of Ensolum's scope of services were to document continued delineation and remediation activities performed at the Site were completed in accordance with the applicable

NMOCD regulatory guidelines and to document those concentrations of COCs present in soil remaining on-Site, then propose remediation to address any residual elevated concentrations.

Based on the results documented in this report, the following findings and conclusions regarding the releases are presented:

- Laboratory analytical results for delineation soil samples from PH01 and PH03 confirm
 that vertical impacts above the Closure Criteria do not exceed the maximum depth of 7
 and 11 feet bgs within the subject release extent, respectively. Laboratory analytical
 results for delineation soil samples associated with delineation soil samples from PH02
 and PH10 indicate more shallow vertical impacts that do not extend beyond 1 to 3 feet
 bgs chloride and TPH, respectively;
- Laboratory analytical results for delineation soil samples from PH05 through PH09 indicated COCs were within the applicable Closure Criteria and will assist with defining a clean lateral excavation boundary;
- Based on existing soil analytical results and mapped extent of the release area (7,333 square feet), an estimated 1,302 cubic yards of impacted soil is anticipated to be remediated and/or removed from the Site for disposal in accordance with state and federal regulations; and
- Depth to groundwater at the Site is between 51 and 100 feet below ground surface (bgs) based a recent measurement of a nearby well on the JC Williams Yard, which was confirmed to be the well measured on the Groundwater Sampling Form provided in the RWP. The well is located approximately 0.31 miles northeast of the Site and groundwater was observed to be 82.9 feet bgs. Photographic documentation during groundwater measurement activities is included in Appendix E.

Based on the conclusions presented above, the following remediation is re-proposed:

- Currently, delineation and excavation soil sampling provided representative lateral and vertical delineation of the remaining impacted soil. Remaining impacts within the subject release are characterized by chloride concentrations of 628 mg/kg to 5,770 mg/kg based on delineation soil samples PH01 through PH03. Ensolum proposes excavation of the release area within the top four feet, followed by the installation of a 20-mil impermeable liner at approximately 4 feet bgs inside the proposed excavation to act as a physical barrier and mitigate further chloride impacts into the subsurface. Once complete, WPX will backfill the area with non-waste containing soil. It should be noted that TPH exceedances associated with delineation soil sample PH10 at 0.5 foot bgs will be removed during excavation activities. The proposed excavation and liner extent is shown on Figure 4 in Appendix A;
- Horizontal delineation in the top four feet for the release will be defined through 5-point composite sidewall samples following the removal of residual impacts;
- Impacted soil will be excavated from the top four feet of the subject release area.
 Excavated soil will then be transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment cell for chloride extraction. WPX will submit a revised RWP detailing the option (b) treatment and sampling plan for NMOCD review, if selected;
- Access for remediation or disturbance that occurs offsite requires BLM approval with additional access approval. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;

- There are areas off pad that will likely require third-party operator oversight and additional safety measures before or during remediation activities near their respective subsurface pipelines. WPX or the third-party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative; and
- Subsequent to the completion of remediation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

4.1 Proposed Sampling

WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 12 sidewall soil samples within the proposed excavation area. Due to the large linear extent of the impacted area (600 feet), Ensolum proposes increasing the confirmation sampling size to collecting a 5-point composite sidewall sample to represent each 500 square foot area for the sidewalls of the excavation, for a total of 5 sidewall soil samples. Residual chloride impacts within the subject release area are defined by delineation soil samples PH01 through PH03 and PH10, therefore no confirmation floor soil samples will be collected.

Additionally, since the only TPH detected in any delineation or excavation confirmation sample was at 0.5 feet bgs in PH10, which is delineated by a deeper sample collected at 1-foot bgs in the same location and which will be removed during excavation, WPX requests all excavation confirmation samples be analyzed for chloride only.

4.2 Proposed Schedule

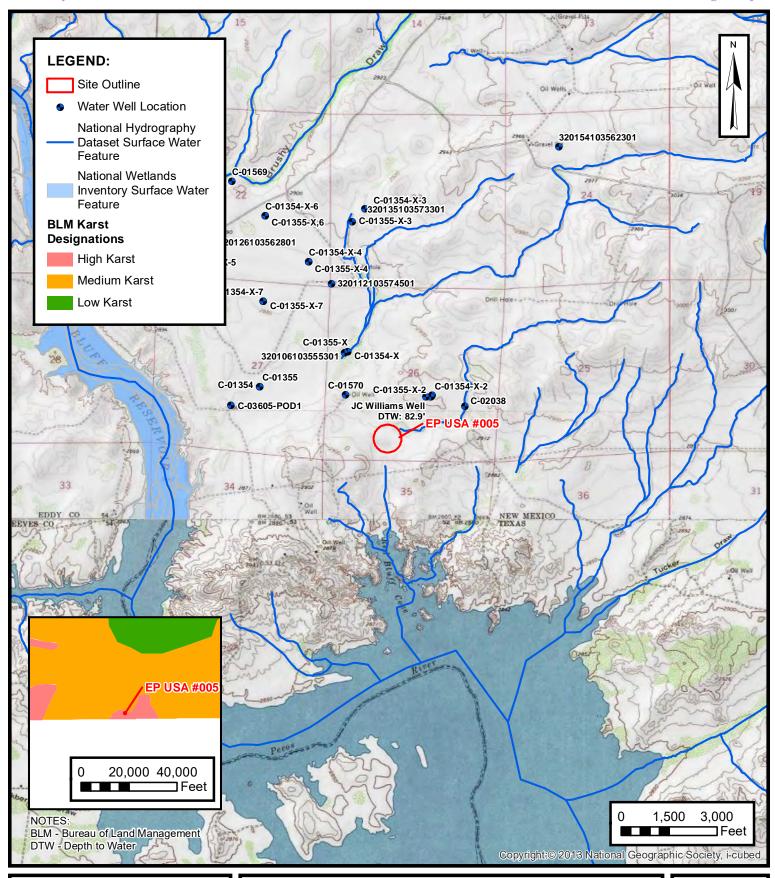
WPX believes the scope of work described above will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

Based on the extent of corrective measures, planning and potential third-party operator oversight at the Site, WPX anticipates beginning remediation within 90 days of the approval of this RWP.



APPENDIX A

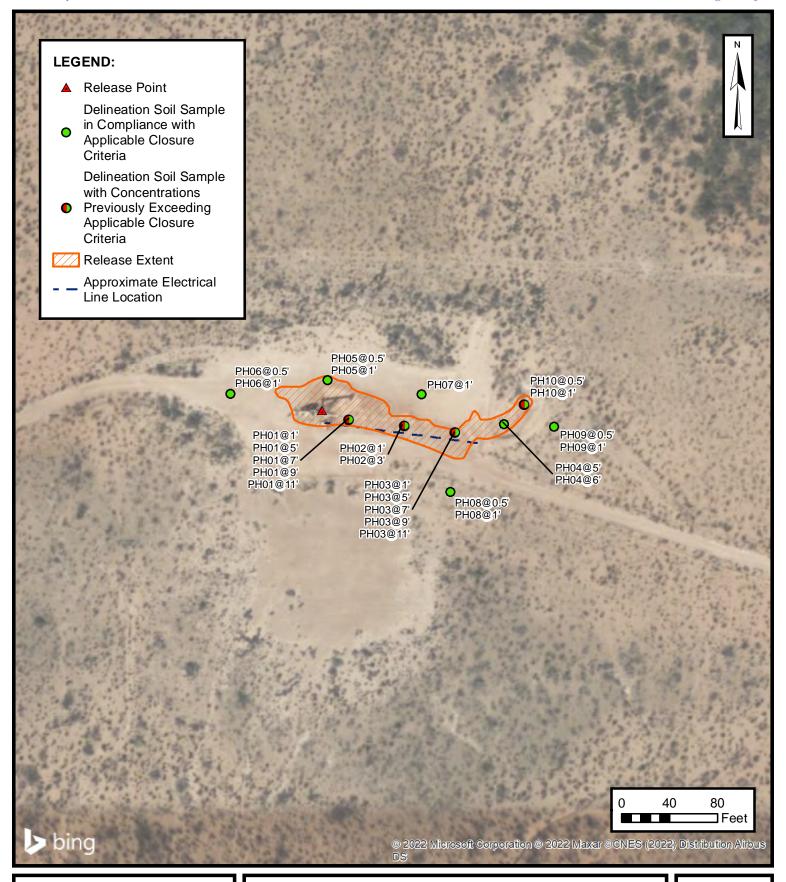
Figures





SITE MAP

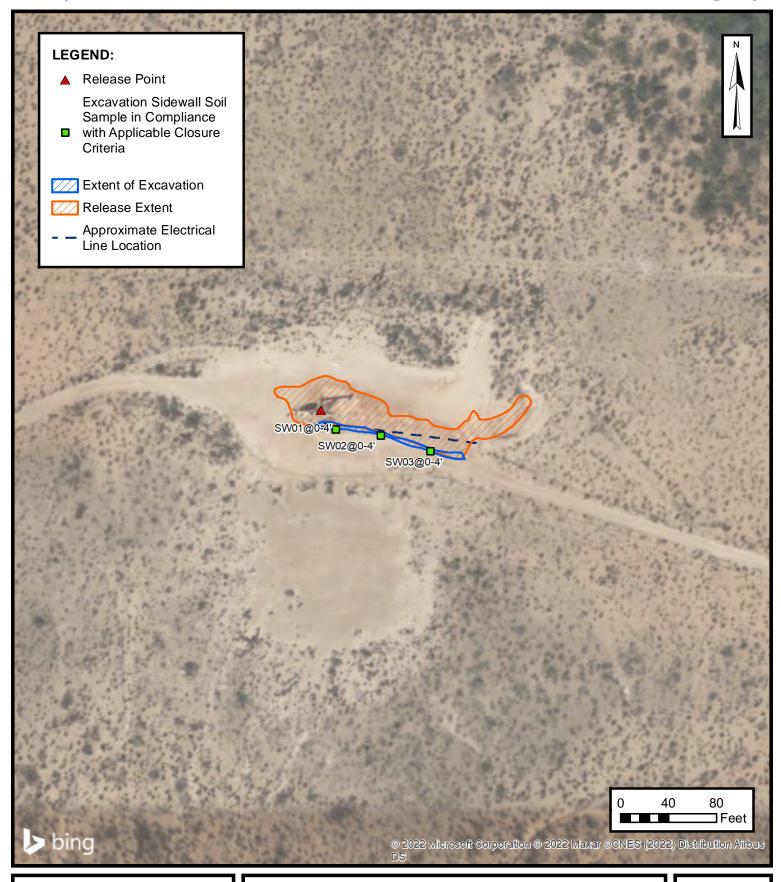
WPX ENERGY PERMIAN, LLC EP USA #005 Sec 26 T26S R29E Eddy County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

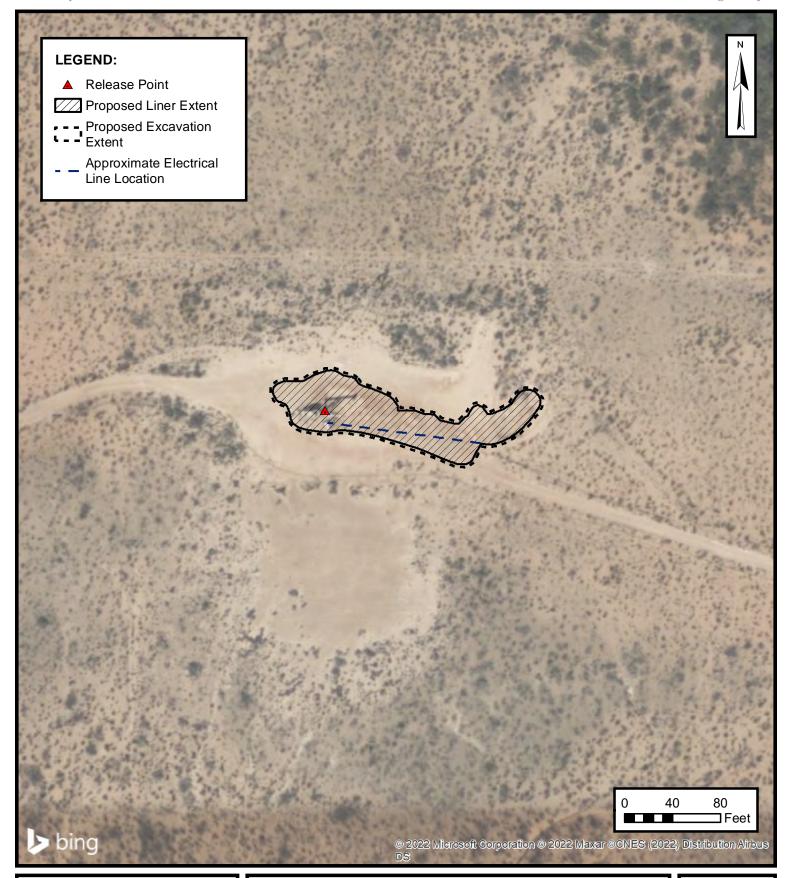
WPX ENERGY PERMIAN, LLC EP USA #005 Sec 26 T26S R29E Eddy County, New Mexico **FIGURE**





EXCAVATION SOIL SAMPLE LOCATIONS

WPX ENERGY PERMIAN, LLC EP USA #005 Sec 26 T26S R29E Eddy County, New Mexico **FIGURE**





PROPOSED REMEDIATION AREA

WPX ENERGY PERMIAN, LLC. EP USA #005 Sec 26 T26S R29E Eddy County, New Mexico **FIGURE**



APPENDIX B

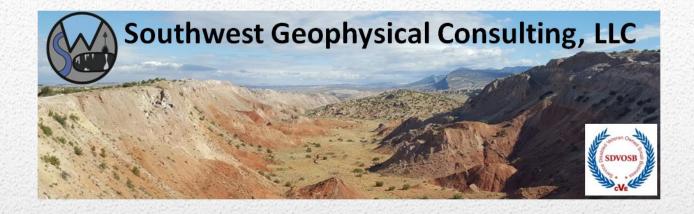
Groundwater Measurement Form

| SABLINIO INFORMATION Date Completes: NA Tree Order from two for Vote In NA Service Turing Instead Depts: NA Service Turing Instead D | lient: Devon Energy roject Name: JC Williams Well GW measurement roject Location: 32.0105289,-103.9534960 roject Manager: Joseph Hernandez | GROUNDWATER MEASUREMENT FORM | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|
| NA = Not Available | ate Completed: NA otal Depth of Monitor Well: NA creen Interval: NA ample Tubing Intake Depth: NA | Project #: 03A1987013 Type of Water Quality Meter: NA Date Calibrated: NA | | | | | | | |
| NA = Not Available | Tubing Placement CW Poeth (static) After Purge | | | | | | | | |
| | | | | | | | | | |



APPENDIX C

Cave and Karst Resource Inventory Report



Cave and Karst Resource Inventory Report EP USA Eddy County, New Mexico

Prepared for:

LT Environmental, Inc.
3300 North A Street Building 1, Unit 222
Midland, TX 79705

☐ Positive – HKOZ remediation process required

☑ Negative – Oil Conservation Division may approve
MKOZ remediation process at their discretion

September 14, 2020

LTE-020-20200826

Published by:

Southwest Geophysical Consulting, LLC 5117 Fairfax Dr. NW Albuquerque, NM 87114 (505) 585-2550 www.swgeophys.com

Prepared by:

David D. Decker, Ph.D.
Principal, Chief Executive Officer
dave@swgeophys.com

Prepared for:

LT Environmental, Inc. 3300 North A Street Building 1, Unit 222 Midland, TX 79705

Point of Contact:

Joseph Hernandez (432) 894-5641 jhernandez@ltenv.com

MMXX

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1.0 INTRODUCTION

A pedestrian surface karst survey was commissioned by LT Environmental, Inc. (hereinafter referred to as "the client") on August 26, 2020 for the purpose of determining what, if any, karst-related surface features are present near the EP USA pad (hereinafter termed "EP") and to provide guidance on the level of remediation required. This study does not include subsurface features, which would require a geophysical survey. The study area that this report covers is in a **HIGH** karst occurrence zone and located within Bureau of Land Management - Carlsbad Field Office managed lands.

As indicated in section **1.3 Affected Environment**, the bedrock and overlying soil at the survey site are susceptible to sinkhole development and karst features may be hidden beneath the existing soil stratum. Risk associated with sinkhole formation can be minimized during remediation by careful excavation of the spill site and the control of site hydrology. The Owner/Developer must recognize that a risk of sinkhole-induced damage to infrastructure remains even after site remediation. The Owner/Developer must evaluate the risks and attendant costs of performing a geophysical survey prior to remediation, versus no geophysical survey, and must be willing to accept these risks if it is decided that a surface karst survey is sufficient. Southwest Geophysical Consulting, LLC can provide a geophysical survey. If the decision is made to conduct a geophysical survey, a cost estimate and timeline will be provided upon request.

1.1 Goals of this Study

To provide the client with the location, description, photos, and boundaries of any surface karst-related features within a 200-meter buffer surrounding the EP pad as provided by the client via email on August 26, 2020.

1.2 Summary of Findings

No surface karst features were located within the pedestrian survey area. However, unknown hidden features may still exist beneath the surface. Caution should be exercised during any remediation efforts.

1.3 Affected Environment

The EP project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region.

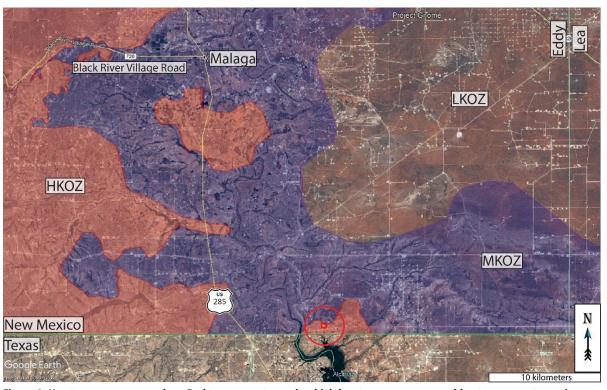


Figure 1: Karst occurrence overview. Red transparent area is a high karst occurrence zone; blue transparent area is a medium karst occurrence zone; no color is a low karst occurrence zone. Study area is the red outlined area in the lower-middle portion of the image. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, or high cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[1]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ) (**Figure 1**).

A high karst occurrence zone is defined as areas in known soluble rock types that contain a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[2].

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The EP project site is located in Eddy County, New Mexico, 26.5 kilometers (16.5 miles) south-southeast of Malaga, New Mexico, and 0.7 kilometers (0.43 miles) north of the Texas-New Mexico border (Figure 1 and Figure 2). The survey area is located within the southwest quarter of section 26 of NM T26S R29E. This area is within the Chihuahuan Desert Thornscrub defined by the Southwestern Regional ReGAP Vegetation map^[3] and the vegetation consists mostly of areas of grass, sparse creosote, and sparse yucca with very good visibility in most locations. See section *2.2 Local Geology* for the geology of the area. The entirety of the project site and surrounding survey area is within a HKOZ and BLM-CFO managed lands (Figure 1 and Figure 2).



Figure 2: Land ownership overview. Yellow transparent area: BLM-CFO managed land. Blue transparent area: New Mexico State Land Office managed land. No color: private land. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.2 Local Geology

The area surveyed for the EP project is located at an elevation of 879 meters (2,884 feet), ± 2 meters (7 feet), within an area underlain by the Permian Rustler and Dewey Lakes Formations (Pru and Pdl). The area is mantled by thin gypsiferous soils, and Quaternary alluvial sands and gravels (Qal and Qp)^[4] between 0 and 3 meters in depth (**Figure 3**). The Rustler Formation is an evaporite facies and is composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite and gypsum^[5], and contains both karstforming strata (the Forty-niner and Tamarisk Members) and two shallow aquifers (the Magenta and Culebra Dolomite Members). The Pru overlies the Permian Salado Formation (PsI), a layer of extremely soluble halite which can easily be dissolved to create caves, sinkholes, and other karst features^[6]. The Pru may be subject to collapse if a void has developed beneath it in the Salado Formation. The survey area is covered by the Geologic Map of New Mexico (2003) at 1:500,000 scale^[4], and the Geologic Atlas of Texas - Hobbs Sheet (1976) at 1:250,000 scale.



Figure 3: Geology overview. Pru: Permian Rustler Formation. Pdl/Pqr: Permian Dewey Lake Formation (formerly known as the Permian Quartermaster Formation). Qp: Quaternary piedmont deposits. Qal: Quaternary alluvium. Red polygon is the study area. Map credit: Geologic Map of New Mexico (2003) at 1:500,000 scale, and Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.3 Description of Survey

For this survey 10 lines were walked in a raster pattern at 50-meter (165 feet) intervals in the designated area, providing 90 to 100% coverage for features greater than 50 centimeters (20 inches) in diameter (**Table 1**, **Figure 4**).

The survey was completed by Garrett Jorgensen on September 09, 2020. The total distance walked was 3.8 kilometers (2.4 miles) and the total area covered was 0.16 square kilometers (39.0 acres).

Table 1: Survey Track Data Files

| File Name | Surveyor | Date | Length (km/miles) | Area (km²/Ac) |
|----------------|-----------|------------|-------------------|----------------------|
| EPSrv_D1S1.kmz | Jorgensen | 09/09/2020 | 3.81/2.37 | 0.16/39.0 |



Figure 4: Survey overview. Red polygon is the study area. Yellow polygon is the EP well pad perimeter. Blue wavy lines are the actual survey lines walked. Background image credit: Google Earth. Image date: February 21, 2019. Datum: WGS-84.

2.4 Description of Karst Features

No surface karst features were located within the boundary of the pedestrian survey area for the EP project site.

3.0 RECOMMENDATIONS

No surface karst features were located during this survey. Based on these findings, allowing use of medium karst occurrence zone (versus high karst occurrence zone) spill remediation procedures may be considered by the Oil Conservation Division within the survey area. Confirmation to use a lower remediation level should be received from the Oil Conservation Division before proceeding.

Vigilance during remediation is paramount. If voids are encountered during trenching or digging contact the New Mexico State Oil Conservation Division if on State land, and the Bureau of Land Management – Carlsbad Field Office at (575) 234-5972 if on BLM land and request an on-site investigation from a karst expert. A karst consultant can generally be on site in Eddy County within five hours.

4.0 REFERENCES

- 1. Rybacki, K., Karst Potential Map. CFO Basemap, 2019.
- 2. Scholle, P.A., *Geologic Map of New Mexico*. 2003. (1:500,000).
- 3. Johnson, K.S., *Evaporite Karst in the United States*. Carbonates and Evaporites, 1997. **12(1)**: p. 2-14.
- 4. Martinez, J.D., K.S. Johnson, and J.T. Neal, *Sinkholes in Evaporite Rocks*. American Scientist, 1998. **86(1-2)**: p. 38-51.
- 5. Whitehead, W. and C. Flynn, *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology.* 2017, Carlsbad, NM: Bureau of Land Management, Carlsbad Field Office.
- 6. Vine, J.D., Surface Geology of Nash Draw Quadrangle Eddy County New Mexico, 1963.

5.0 GLOSSARY OF TERMS

BLM Bureau of Land Management

CFO Carlsbad Field Office

cave A natural opening at the surface, large enough for a person to enter.

GPS Global Positioning System

NMSLO New Mexico State Land Office

OCD Oil Conservation Division

playa lake A natural depression on the surface that collects rainwater. Some contain

swallets and/or caves, others do not.

pseudokarst Karst-like terrain that forms through processes other than dissolution.

Swallet A natural opening in the surface, too small for a person, that drains water

to an aquifer. Some are "open," meaning a void can be seen below; some

are "closed," meaning they are full of sediment.

WGS World Geodetic System

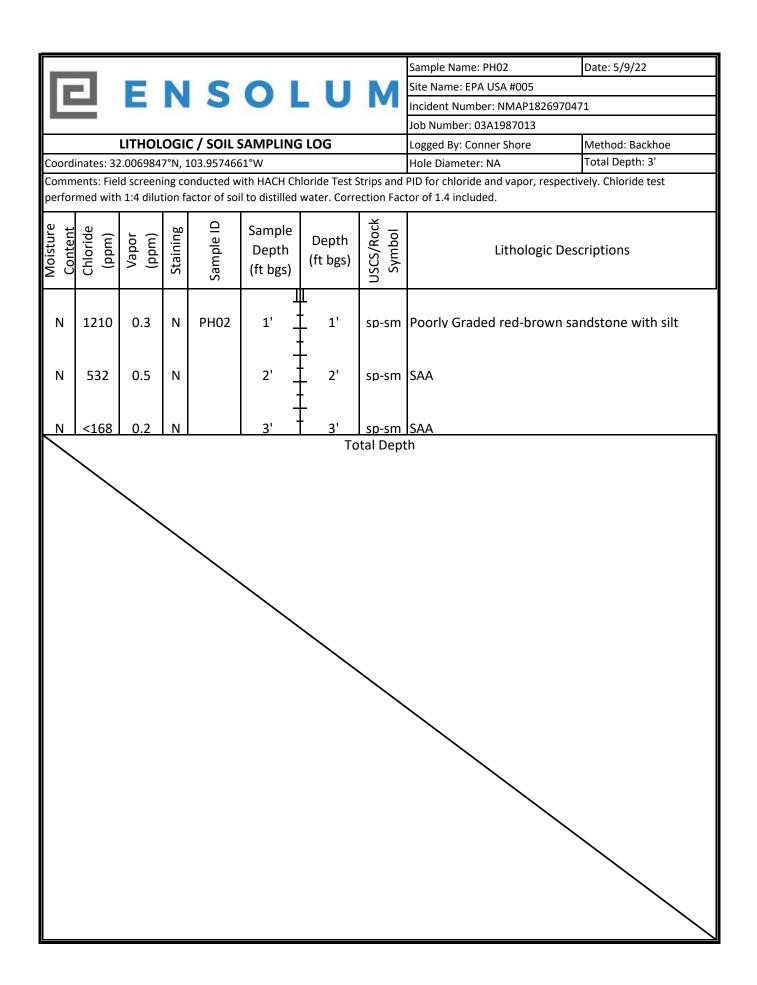




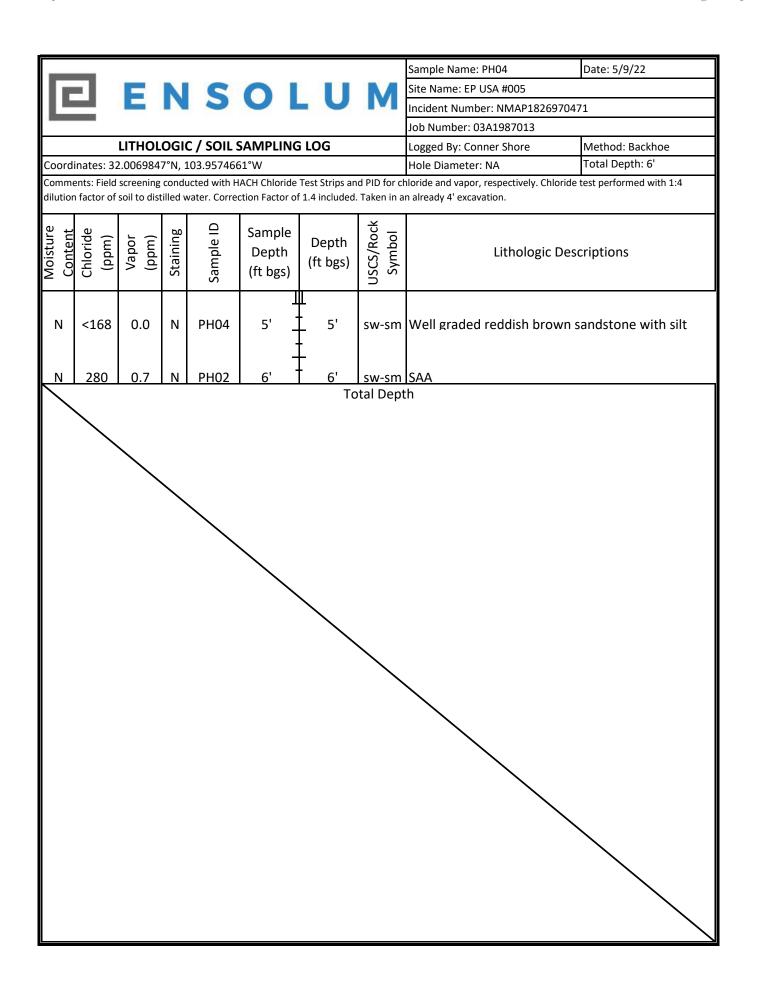
APPENDIX D

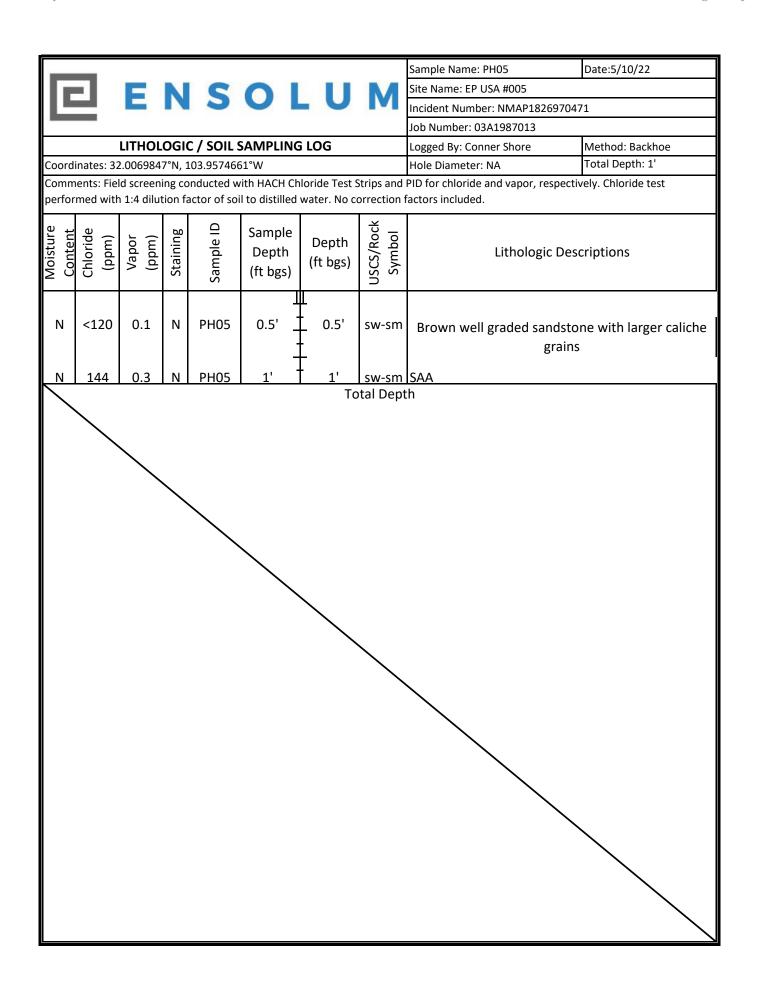
Lithologic Soil Sampling Logs

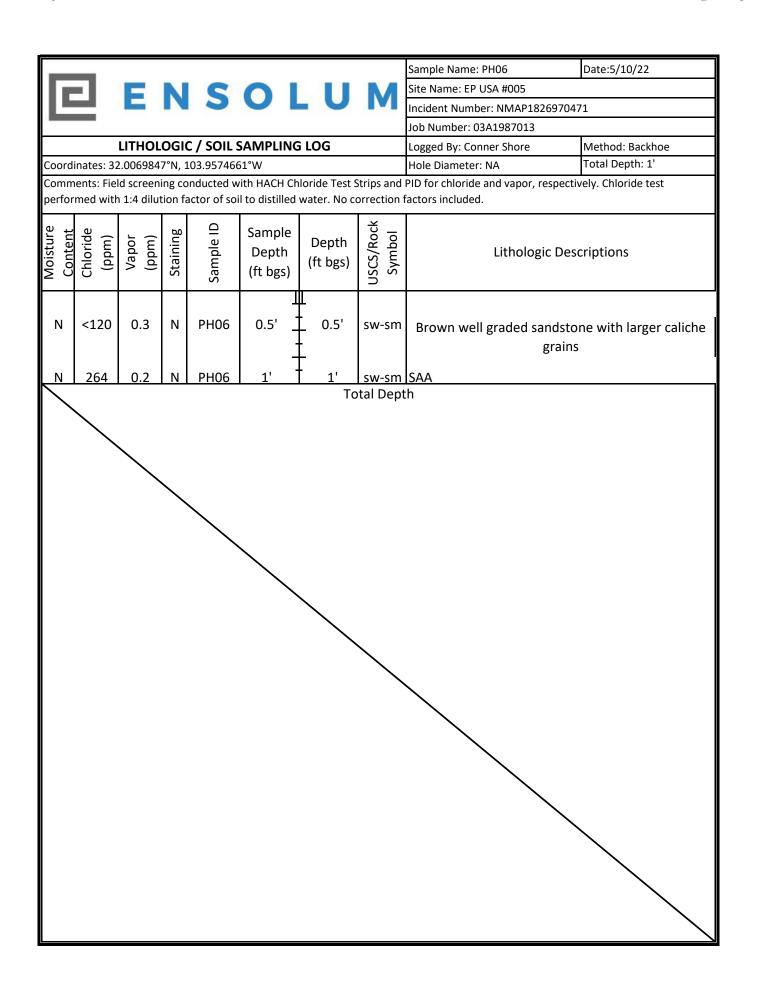
| | Sample Name:PH01 Date: 5/9/22 | | | | | | | | | | |
|---|--|----------------|----------|-----------|----------|---------------|---------------------|----------------------------|---------------------|--|--|
| | | | | | | | | | | | |
| ENSOLUM Site Name: EPA USA #005 Incident Number: NMAP1826970471 | | | | | | | | | | | |
| Job Number: 03A1987013 | | | | | | | | | | | |
| | LITHOLOGIC / SOIL SAMPLING LOG Logged By: Conner Shore Method: Backhoe | | | | | | | | | | |
| Coordi | | | | | | | Total Depth: 11' | | | | |
| Coordinates: 32.0069847°N, 103.9574661°W Hole Diameter: NA Total Depth: 11' 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. Correction Factor Included (x1.4) | | | | | | | | | | | |
| | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | or n) | Staining | Sample ID | Sample | Depth | USCS/Rock Symbol | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | ain | ηpl | Depth | (ft bgs) | SCS/Roc Symbol | Lithologic Descriptions | | | |
| Σŏ | 5) | | St | Saı | (ft bgs) | (| US(S | | | | |
| | | | | | 1 | L | | | | | |
| N | 1036 | 0.1 | N | PH01 | 1' | 1' | | Poorly Graded reddish brow | nish Sandstone silt | | |
| | 1000 | 0.1 | | | · - | | | Transfer Teacher | mon sandstone she | | |
| | | | | | - | - | | | | | |
| Ν | 1036 | 0.2 | Ν | | 2' | 2' | | SAA | | | |
| | | | | | - | - | | | | | |
| | 1512 | 0.1 | | | 3' | - 3' | | C A A | | | |
| N | 1512 | 0.1 | N | | 3 _ | _ 3 | | SAA | | | |
| | | | | | _ | | | | | | |
| N | 728 | 0.0 | N | | 4' | 4' | | SAA | | | |
| | | | | | _ | - | | | | | |
| | | | | | _ | _ | | | | | |
| N | 1994 | 0.5 | N | | 5' _ | 5' | | SAA | | | |
| | | | | | _ | - | | | | | |
| N | 1124 | 0.1 | N | | 6' | 6' | | SAA | | | |
| IN | 1124 | 0.1 | IN | | 0 - | _ 0 | | JAA | | | |
| | | | | | _ | _ | | | | | |
| N | 660 | 0.0 | N | | 7' | 7' | | SAA | | | |
| | | | | | - | - | | | | | |
| | . – | | | | | - , | | | | | |
| N | 476 | 0.0 | N | | 8' | 8' | | SAA | | | |
| | | | | | | - | | | | | |
| N | 1209 | 0.6 | N | | 9' | 9' | | SAA | | | |
| ' | 1205 | 0.0 | ' | | , | <u> </u> | | J. V. (| | | |
| | | | | | - | - | | | | | |
| N | N 728 0.2 N 10' 10' Well graded reddish brown Sandstone with silt | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| N 324 0.3 N 11' T 11' SAA Total Depth | | | | | | | | | | | |
| Total Depth | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

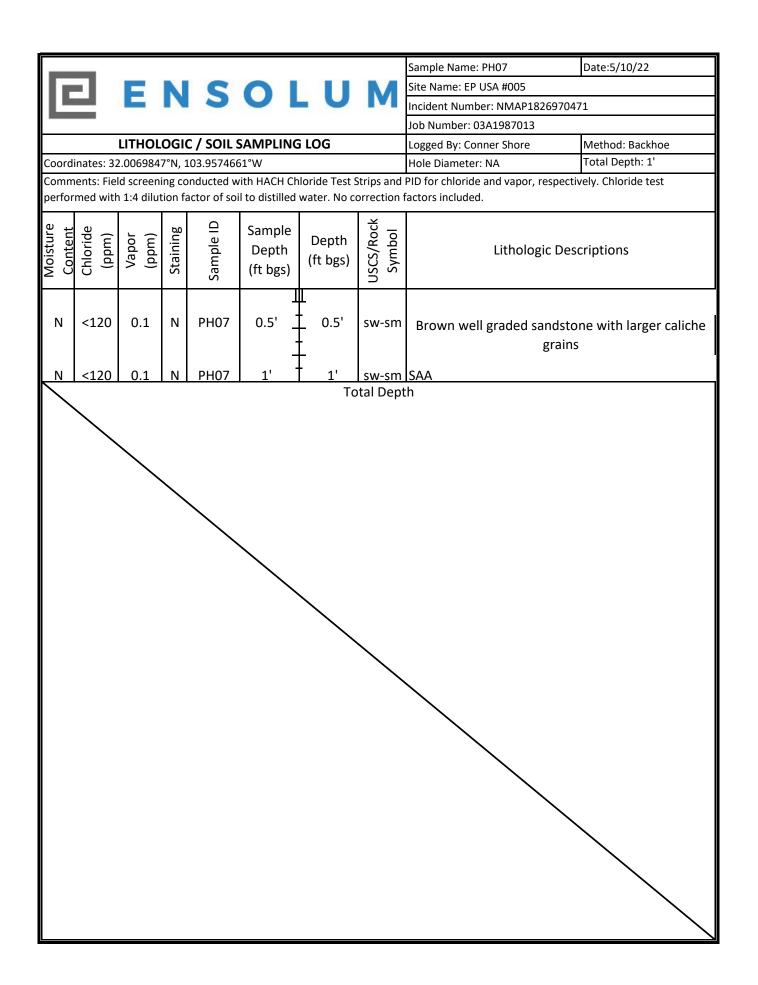


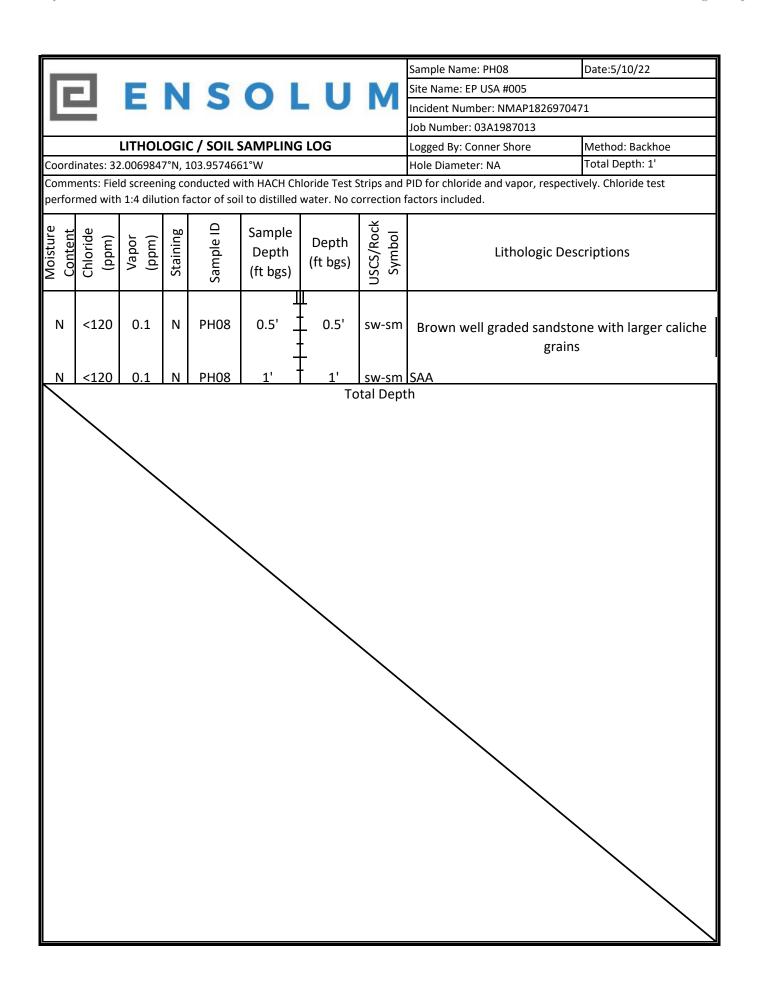
| | Sample Name:PH03 Date: 5/9/22 | | | | | | | | | | |
|--|---|----------------|----------|-----------|-----------------|-------------------|---------------------|---------------------------|-------------------------|--|--|
| | | | | | | | | | | | |
| Site Name: EP USA 5 Incident Number: NMAP1826970471 | | | | | | | | | | | |
| | Job Number: 03A1987013 | | | | | | | | | | |
| | LITHOLOGIC / SOIL SAMPLING LOG Logged By: Conner Shore Method: Backhoe | | | | | | | | | | |
| Coordi | | | | | | Hole Diameter: NA | Total Depth: 11' | | | | |
| | Coordinates: 32.0069847°N, 103.9574661°W Hole Diameter: NA Total Depth: 11' 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. Correction Factor Included (x1.4) | | | | | | | | | | | |
| | | | | | | | | | | | |
| Moisture Content | Chloride (ppm) | or n) | Staining | Sample ID | Sample | Depth | JSCS/Rock Symbol | | | | |
| Aoisture Content | Chloride (ppm) | Vapor (ppm) | tain | mp | Depth | (ft bgs) | CS/ ym | Lithologic Des | criptions | | |
| ΣŬ | 5 | | S | Sal | (ft bgs) | , 0, | USO | | | | |
| | | | | | 1 | L | | | | | |
| N | >3466 | 0.3 | N | PH03 | 1' | 1' | sw-sm | Well Graded reddish brown | ich Sandstone with cilt | | |
| | | 0.0 | | | | <u> </u> | | and gyps | | | |
| | | | | | - | _ | | and gyps | uiii | | |
| Ν | >3466 | 0.2 | Ν | | 2' | 2' | sw-sm | SAA | | | |
| | | | | | - | - | | | | | |
| | . 2466 | 0.5 | | | 21 | - | | C A A | | | |
| N | >3466 | 0.5 | N | | 3' _ | 3' | sw-sm | SAA | | | |
| | | | | | _ | - - | | | | | |
| N | 3002 | 0.3 | N | | 4' - | 4' | sw-sm | SAA | | | |
| | - | | | | _ | - | | | | | |
| | | | | | - | _ | | | | | |
| Ν | 2134 | 0.4 | Ν | | 5' | 5' | sw-sm | SAA | | | |
| | | | | | - | = | | | | | |
| | 2645 | 0.2 | | | | <u>-</u> | | C A A | | | |
| N | 2615 | 0.3 | N | | 6' _ | 6' | sw-sm | SAA | | | |
| | | | | | _ | - | | | | | |
| N | 1209 | 0.4 | N | | 7' | 7' | sw-sm | SAA | | | |
| | | | | | | - | | | | | |
| | | | | | | _ | | | | | |
| N | 1864 | 0.1 | N | | 8' _ | 8' | sw-sm | SAA | | | |
| | | | | | - | <u>-</u> | | | | | |
| N | 1405 | 0.2 | N | | 9' | - 9' | sw-sm | CAA | | | |
| N | 1405 | 0.2 | IN | | 9 _ | _ 9 | sw-sm | JAA | | | |
| | | | | | | | | | | | |
| N | 369.6 | 0.1 | N | | 10' | 10' | sw-sm | SAA | | | |
| | | | | | | _ | | | | | |
| | | | | | | - | | | | | |
| N 420 0.2 N 11' T 11' sw-sm SAA | | | | | | | | | | | |
| Total Depth | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

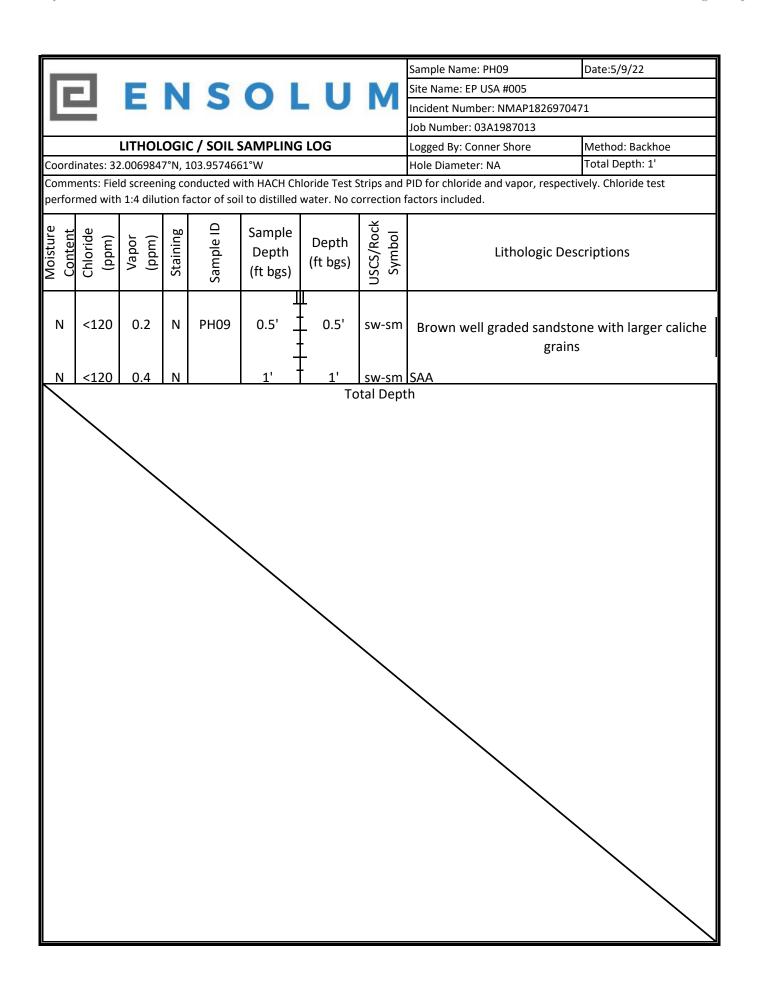


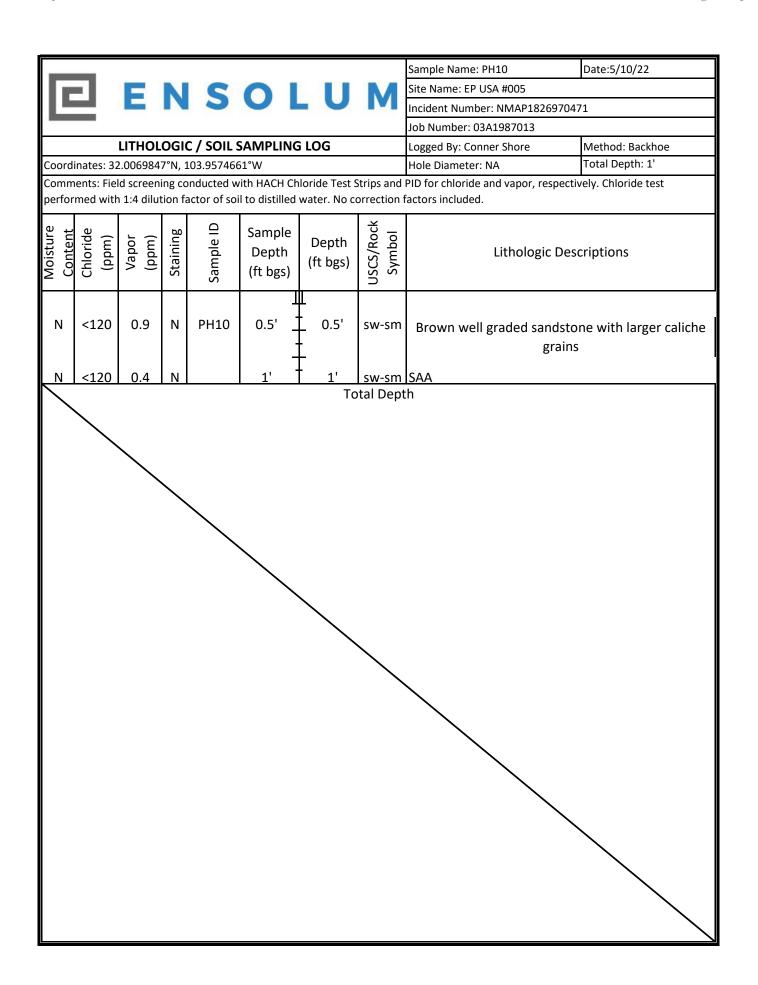














APPENDIX E

Photographic Log

PENSOLUM

Photographic Log

WPX Energy Permian, LLC EP USA #005 Incident Number NMAP1826970471





Photograph 1 Date: 05/09/2022

Photograph 2

Date: 05/10/2022

Description: View of the Site during delineation activities. Description: View of the Site during delineation activities.





Photograph 3 Date: 06/17/2022 Description: View of the Site during excavation activities. Description: View of the Site following excavation

Photograph 4

Date: 06/17/2022

activities.



Photographic Log

WPX Energy Permian, LLC EP USA #005 Incident Number NMAP1826970471





Photograph 5 Date: 08/15/2022 Description: View of the JC Williams Well.

Photograph 6 Date: 08/15/2022 Description: View of the JC Williams Well.



APPENDIX F

Tables

Received by OCD: 9/9/2022 9:15:58 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - EP USA #005 Eddy County, New Mexico

Ensolum Project No. 03A1987013

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---------------|------------------|----------------------------|--------------------|-----------------------|---------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| NMOCD Table 1 | Closure Criteria | (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| | | | | Deline | ation Soil Sample A | nalytical Results | | | | |
| PH01 | 05/09/2022 | 1 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 5,770 |
| PH01 | 8/16/2022 | 5 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 628 |
| PH01 | 8/16/2022 | 7 | <0.00200 | <0.00401 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 505 |
| PH01 | 8/16/2022 | 9 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 549 |
| PH01 | 05/09/2022 | 11 | <0.00198 | <0.00397 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 529 |
| PH02 | 05/09/2022 | 1 | <0.00200 | <0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,810 |
| PH02 | 05/09/2022 | 3 | <0.00200 | <0.00399 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 313 |
| PH03 | 05/09/2022 | 1 | <0.00201 | <0.00402 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,320 |
| PH03 | 8/16/2022 | 5 | <0.00200 | <0.00416 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 852 |
| PH03 | 8/16/2022 | 7 | <0.00200 | 0.00400 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,510 |
| PH03 | 8/16/2022 | 9 | <0.00200 | 0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 866 |
| PH03 | 05/09/2022 | 11 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 569 |
| PH04 | 05/09/2022 | 5 | <0.00202 | <0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 22.1 |
| PH04 | 05/09/2022 | 6 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 20.0 |
| PH05 | 05/10/2022 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 19.3 |
| PH05 | 05/10/2022 | 1 | <0.00202 | <0.00403 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 214 |
| PH06 | 05/10/2022 | 0.5 | <0.00200 | <0.00400 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 50.1 |
| PH06 | 05/10/2022 | 1 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 592 |
| PH07 | 05/10/2022 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 107 |
| PH07 | 05/10/2022 | 1 | <0.00200 | <0.00399 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 46.7 |

Ensolum

Received by OCD: 9/9/2022 9:15:58 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC - EP USA #005 Eddy County, New Mexico

Ensolum Project No. 03A1987013

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|----------------|----------------------------|--------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------------------|---------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | (NMAC 19.15.29) | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| PH08 | 05/10/2022 | 0.5 | <0.00201 | <0.00402 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 19.2 |
| PH08 | 05/10/2022 | 1 | <0.00202 | <0.00404 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 23.6 |
| PH09 | 05/09/2022 | 0.5 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 74.7 |
| PH09 | 05/09/2022 | 1 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 227 |
| PH10 | 05/10/2022 | 0.5 | <0.00200 | <0.00399 | <49.9 | 53.9 | 67.3 | 67.3 | 121 | 131 |
| PH10 | 05/10/2022 | 1 | <0.00199 | <0.00398 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 136 |

Notes

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or Reclamation

Standard for Soils Impacted by a Release

Ensolum



APPENDIX G

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2293-1

Laboratory Sample Delivery Group: 03A1987013

Client Project/Site: EP USA 5

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

MAMER

Authorized for release by: 5/24/2022 3:55:53 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Have a Question?

Ask
The

EOL

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Released to Imaging: 9/19/2022 3:35:36 PM

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

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

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Client: Ensolum

Project/Site: EP USA 5

Laboratory Job ID: 890-2293-1

SDG: 03A1987013

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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-2293-1

 Project/Site: EP USA 5
 SDG: 03A1987013

2

Qualifiers

GC VOA

Qualifier Qualifier Description

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

GC Semi VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
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.

Eisted 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 Job ID: 890-2293-1
Project/Site: EP USA 5 SDG: 03A1987013

Job ID: 890-2293-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2293-1

REVISION

The report being provided is a revision of the original report sent on 5/17/2022. The report (revision 1) is being revised due to Per client email, requesting chloride re run on PH03B.

Report revision history

Receipt

The samples were received on 5/10/2022 8:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25601 and analytical batch 880-25595 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25316 and analytical batch 880-25321 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Eurofins Carlsbad 5/24/2022 (Rev. 1)

Matrix: Solid

Job ID: 890-2293-1 SDG: 03A1987013

Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH01A Lab Sample ID: 890-2293-1

Client Sample ID: PH01A

Date Collected: 05/09/22 09:00

Date Received: 05/10/22 08:39

Sample Depth: 1

Client: Ensolum

| Method: 8021B - Volatile O Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------|----------|--------|-------|-----|----------------|----------------|---------|
| Benzene | <0.00199 | | 0.00199 | - WIDE | mg/Kg | _ = | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| | | | | | 0 0 | | | | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 21:49 | 1 |
| - Method: Total BTEX - Total | BTEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 05/16/22 17:06 | |

| Method: 8015 NM - Diesel Rar | nge Organics (DRO) (GC) |) | | | | | |
|------------------------------|-------------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 U | 50.0 | mg/Kg | | | 05/12/22 09:42 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:00 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 102 | | 70 - 130 | | | | 05/11/22 09:33 | 05/11/22 19:00 | 1 |
| o-Terphenyl | 111 | | 70 - 130 | | | | 05/11/22 09:33 | 05/11/22 19:00 | 1 |

| Method: 300.0 - Anions, ion Chromatography - Soluble | | | | | | | | | |
|--|------------------|------|----------|---|----------|----------------|---------|--|--|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 5770 | 99.2 | mg/Kg | | | 05/13/22 18:54 | 20 | | |

Client Sample ID: PH01B

Date Collected: 05/09/22 13:20

Lab Sample ID: 890-2293-2

Matrix: Solid

Date Received: 05/10/22 08:39

Sample Depth: 11

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| m-Xylene & p-Xylene | < 0.00397 | U | 0.00397 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| Xylenes, Total | <0.00397 | U | 0.00397 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 122 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 22:10 | 1 |

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Client: Ensolum Job ID: 890-2293-1
Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH01B Lab Sample ID: 890-2293-2

Date Collected: 05/09/22 13:20 Matrix: Solid
Date Received: 05/10/22 08:39

Sample Depth: 11

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

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 96 | 70 - 130 | 05/16/22 09:24 | 05/16/22 22:10 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | < 0.00397 | U | 0.00397 | mg/Kg | _ | | 05/16/22 17:06 | 1 |

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

| Analyte | Result C | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 L | J | 50.0 | mg/K | 7 | | 05/12/22 09:42 | 1 |

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|----------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:21 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:21 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 115 | | 70 - 130 | 05/11/22 09:33 | 05/11/22 19:21 | 1 |
| o-Terphenyl | 121 | | 70 - 130 | 05/11/22 09:33 | 05/11/22 19:21 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|----------|---|----------|----------------|---------|
| Chloride | 529 | 50.1 | mg/Kg | | | 05/13/22 19:03 | 10 |

Client Sample ID: PH02A

Date Collected: 05/09/22 10:20

Lab Sample ID: 890-2293-3

Matrix: Solid

Date Collected: 05/09/22 10:20 Date Received: 05/10/22 08:39

Sample Depth: 1

| Mothod: 9021B | Volatile | Organic | Compounds | (CC) |
|---------------|----------|---------|-----------|------|

| Wethou. Ouz ID - Volatile O | ethod: 6021B - Volatile Organic Compounds (GC) | | | | | | | | | | | | |
|-----------------------------|--|-----------|----------|-----|-------|---|----------------|----------------|---------|--|--|--|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | | | |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | | | | |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |
| 1 4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 22:30 | 1 | | | | |

| L | 1,4-Difluorobenzene (Surr) | 94 | 70 - 130 | 05/16/22 09:24 | 05/16/22 22 |
|---|---|----------|----------|----------------|-------------|
| ſ | - Method: Total BTEX - Total BTEX Cald | culation | | | |

| momount rotal B 1 E/C | . Otal B . E/t Galgala | | | | | | | | |
|-----------------------|------------------------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 05/16/22 17:06 | 1 |

| Mothod: 8015 NM | Diesal Range | Organice | (DRO) (GC) |
|-----------------|--------------|----------|------------|

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | : | | 05/12/22 09:42 | 1 |

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Matrix: Solid

Lab Sample ID: 890-2293-3

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH02A

Date Collected: 05/09/22 10:20 Date Received: 05/10/22 08:39

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:43 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 19:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 98 | | 70 - 130 | | | | 05/11/22 09:33 | 05/11/22 19:43 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | | 05/11/22 09:33 | 05/11/22 19:43 | 1 |

| Method: 300.0 - Anions, Ion Ch | romatography - Solubl | e | | | | | |
|--------------------------------|-----------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1810 | 24.9 | mg/Kg | | | 05/13/22 19:31 | 5 |

Lab Sample ID: 890-2293-4 **Client Sample ID: PH02B** Date Collected: 05/09/22 10:25 **Matrix: Solid**

Date Received: 05/10/22 08:39

Sample Depth: 3

Surrogate

o-Terphenyl

1-Chlorooctane

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|--|---------------------------|------------|-------------------------|--------------|-------------------|--|-----------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 123 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 22:51 | 1 |
| Method: Total BTEX - Total BT Analyte | | | | | | | | | |
| | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | | 0.00399 | MDL | Unit mg/Kg | D | Prepared | Analyzed 05/16/22 17:06 | Dil Fac |
| | <0.00399 | U | 0.00399 | MDL | | <u>D</u> | Prepared | | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | MDL MDL | mg/Kg | <u>D</u> | Prepared Prepared | | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar | <0.00399 | s (DRO) (C | 0.00399 GC) | | mg/Kg | | <u> </u> | 05/16/22 17:06 | 1 Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte | <0.00399 nge Organic Result <50.0 | S (DRO) (C Qualifier | 0.00399 GC) RL 50.0 | | mg/Kg Unit | | <u> </u> | 05/16/22 17:06 Analyzed | 1 Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar | <0.00399 nge Organic Result <50.0 ange Organ | S (DRO) (C Qualifier | 0.00399 GC) RL 50.0 | | mg/Kg Unit mg/Kg | | <u> </u> | 05/16/22 17:06 Analyzed | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar | <0.00399 nge Organic Result <50.0 ange Organ | S (DRO) (O Qualifier U | 0.00399 RL 50.0 (GC) | MDL | mg/Kg Unit mg/Kg | <u>D</u> | Prepared | 05/16/22 17:06 Analyzed 05/12/22 09:42 | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics | <0.00399 nge Organic Result <50.0 ange Organ Result | S (DRO) (O Qualifier U ics (DRO) Qualifier U | 0.00399 RL 50.0 (GC) RL | MDL | mg/Kg Unit mg/Kg Unit | <u>D</u> | Prepared Prepared | 05/16/22 17:06 Analyzed 05/12/22 09:42 Analyzed | 1 |

Eurofins Carlsbad

Analyzed

Prepared

<u>05/11/22 09:33</u> <u>05/11/22 20:05</u>

05/11/22 09:33 05/11/22 20:05

Limits

70 - 130

70 - 130

5/24/2022 (Rev. 1)

Dil Fac

%Recovery Qualifier

115

____1

Client: Ensolum
Project/Site: EP USA 5

Job ID: 890-2293-1 SDG: 03A1987013

Client Sample ID: PH02B

Lab Sample ID: 890-2293-4

Date Collected: 05/09/22 10:25
Date Received: 05/10/22 08:39

Matrix: Solid

Sample Depth: 3

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | |
|--|------------------|------|----------|---|----------|----------------|---------|--|--|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 313 | 4.95 | mg/Kg | | | 05/13/22 19:40 | 1 | | |

Client Sample ID: PH03A Lab Sample ID: 890-2293-5

Date Collected: 05/09/22 10:35 Matrix: Solid

Date Received: 05/10/22 08:39

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 23:12 | 1 |

| Analyte Total BTEX | Result <0.00402 | Qualifier U | RL 0.00402 | MDL | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/16/22 17:06 | Dil Fac |
|-----------------------------------|------------------------|----------------|---------------|-----|---------------|----------|----------|-------------------------|---------|
| Method: 8015 NM - Diesel Rang | ge Organic | s (DRO) (0 | SC) | | | | | | |

| Analyte | Result Qualifier | RL MD | L Unit | D | Prepared | Analyzed | Dil Fac |
|---|--|---------|--------|---|----------|----------------|---------|
| Total TPH | <49.9 U | 49.9 | mg/Kg | | | 05/12/22 09:42 | 1 |
| | | | | | | | |
| Method: 8015B NM - Diesel Ra | inge Organics (DRC | O) (GC) | | | | | |
| Method: 8015B NM - Diesel Ra Analyte | inge Organics (DRO Result Qualifier | , , , | L Unit | D | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|--------------------------------------|---------------------|--------|-------|----------------|----------------|---------|
| Oll Range Organics (Over C28-C36) | <49.9 U | 49.9 | mg/Kg | 05/12/22 10:01 | 05/12/22 15:42 | • |
| Diesel Range Organics (Over C10-C28) | <49.9 U | 49.9 | mg/Kg | 05/12/22 10:01 | 05/12/22 15:42 | 1 |
| (GRO)-C6-C10 | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 15:42 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 15:42 | 1 |
| _ | | | | | | |

| Method: 300.0 - Anions, Ion Ch | romatogra | phy - Solu | ble | | | | | | |
|--------------------------------|-----------|------------|------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 1320 | | 5.03 | | mg/Kg | | | 05/13/22 20:08 | 1 |

Matrix: Solid

Lab Sample ID: 890-2293-6

Client Sample Results

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH03B

Date Collected: 05/09/22 10:55 Date Received: 05/10/22 08:39

Sample Depth: 11

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---|---------------------------------------|-----|-------------------------------|----------|---|--|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:33 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 23:33 | |
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 23:33 | • |
| Method: Total BTEX - Total B | ΓEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | < 0.00404 | U | 0.00404 | | mg/Kg | | | 05/16/22 17:06 | |
| Total B 1 Ext | | _ | 0.00-0- | | 9/119 | | | 00/10/22 17:00 | |
| | | | | | g/i.tg | | | 00, 10,22 11.00 | |
| Method: 8015 NM - Diesel Rar | nge Organic | | | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH | nge Organic | s (DRO) (C | SC) | MDL | | <u>D</u> | Prepared | | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH | nge Organic Result <50.0 | S (DRO) (O Qualifier U | RL 50.0 | MDL | Unit | <u>D</u> | Prepared | Analyzed | |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra | nge Organic Result <50.0 | S (DRO) (O Qualifier U | RL 50.0 | | Unit | <u>D</u> | Prepared Prepared | Analyzed | |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics | nge Organic Result <50.0 | S (DRO) (O Qualifier U | RL 50.0 | | Unit mg/Kg | _ = | <u> </u> | Analyzed 05/12/22 09:42 | |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | nge Organic Result <50.0 ange Organ Result | S (DRO) (O Qualifier U ics (DRO) Qualifier U | RL 50.0 | | Unit mg/Kg | _ = | Prepared | Analyzed 05/12/22 09:42 Analyzed | Dil Fa |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | nge Organic Result <50.0 ange Organ Result <50.0 | s (DRO) (O Qualifier U ics (DRO) Qualifier U | (GC) RL 50.0 | | Unit mg/Kg Unit mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/12/22 09:42 Analyzed 05/12/22 16:03 | Dil Fa |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | nge Organic Result <50.0 ange Organ Result <50.0 <50.0 | ics (DRO) Qualifier U Qualifier U U U U U | GC) RL 50.0 (GC) RL 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/12/22 09:42 Analyzed 05/12/22 16:03 05/12/22 16:03 | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte | nge Organic Result <50.0 ange Organ Result <50.0 <50.0 <50.0 | ics (DRO) Qualifier U Qualifier U U U U U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/12/22 09:42 Analyzed 05/12/22 16:03 05/12/22 16:03 05/12/22 16:03 | Dil Fac |

Chloride 569

Result Qualifier

Client Sample ID: PH04A Date Collected: 05/09/22 11:55

Date Received: 05/10/22 08:39

Sample Depth: 5

Analyte

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | 05/16/22 09:24 | 05/16/22 23:53 | 1 |

RL

25.1

MDL Unit

mg/Kg

D

Prepared

Analyzed

05/18/22 02:38

Lab Sample ID: 890-2293-7

Dil Fac

Matrix: Solid

Job ID: 890-2293-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH04A Lab Sample ID: 890-2293-7 **Matrix: Solid**

Date Collected: 05/09/22 11:55 Date Received: 05/10/22 08:39

Sample Depth: 5

| Method: 8021B - Volatile Organic Co | ompounds (GC) (Continued) |
|-------------------------------------|---------------------------|
|-------------------------------------|---------------------------|

| Surrogate | %Recovery | Qualifier | Limits | Prepared Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|------------------------------|---------|
| 1,4-Difluorobenzene (Surr) | 103 | | 70 - 130 | 05/16/22 09:24 05/16/22 23:s | 3 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | < 0.00403 | U | 0.00403 | mg/Kg | | | 05/16/22 17:06 | 1 |

| Method: 8015 NM - Diese | Pango Organice | (DRO) | (GC | ١ |
|--------------------------|----------------|-------|-----|---|
| Method. od 15 MM - Diese | Range Organics | (DKO) | (GC | , |

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 05/12/22 09:42 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|----------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 16:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 16:47 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 16:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|-----------------------|----------------|---------|
| 1-Chlorooctane | 105 | | 70 - 130 | <u>05/12/22 10:01</u> | 05/12/22 16:47 | 1 |
| o-Terphenyl | 109 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 16:47 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|----------|---|----------|----------------|---------|
| Chloride | 22.1 | 5.03 | mg/Kg | | | 05/16/22 13:50 | 1 |

Client Sample ID: PH04B Lab Sample ID: 890-2293-8 **Matrix: Solid**

Date Collected: 05/09/22 13:50 Date Received: 05/10/22 08:39

Sample Depth: 6

| Mothod: 9021B | Volatile | Organic | Compounds | (CC) |
|---------------|----------|---------|-----------|------|

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | | | | 05/16/22 09:29 | 05/16/22 15:17 | 1 |

| Mothodi | Total DTEV | - Total RTFX | Coloulation |
|---------|------------|--------------|-------------|
| | | | |

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 05/16/22 17:06 | 1 |

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

| Analyte | Result C | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|----------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <49.9 L | J | 49.9 | mg/Kg | | | 05/12/22 09:42 | 1 |

Matrix: Solid

Lab Sample ID: 890-2293-8

Client Sample Results

 Client: Ensolum
 Job ID: 890-2293-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Client Sample ID: PH04B

Date Collected: 05/09/22 13:50 Date Received: 05/10/22 08:39

Sample Depth: 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:09 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:09 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 101 | | 70 - 130 | | | | 05/12/22 10:01 | 05/12/22 17:09 | 1 |
| o-Terphenyl | 102 | | 70 - 130 | | | | 05/12/22 10:01 | 05/12/22 17:09 | 1 |

| Method: 300.0 - Anions, Ion Ch | nromatography - Solu | ıble | | | | | |
|--------------------------------|----------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 20.0 | 4 99 | ma/Ka | | | 05/16/22 13:59 | 1 |

2

3

5

9

10

1 1

13

Surrogate Summary

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | nt Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|---|
| | | BFB1 | DFBZ1 | |
| ab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 380-14535-A-1-E MS | Matrix Spike | 108 | 101 | |
| 380-14535-A-1-F MSD | Matrix Spike Duplicate | 106 | 102 | |
| 390-2293-1 | PH01A | 101 | 105 | |
| 390-2293-2 | PH01B | 122 | 96 | |
| 390-2293-3 | PH02A | 104 | 94 | |
| 390-2293-4 | PH02B | 123 | 92 | |
| 390-2293-5 | PH03A | 122 | 98 | |
| 390-2293-6 | PH03B | 105 | 103 | |
| 390-2293-7 | PH04A | 104 | 103 | |
| 390-2293-8 | PH04B | 101 | 88 | |
| 390-2293-8 MS | PH04B | 103 | 94 | |
| 90-2293-8 MSD | PH04B | 108 | 104 | |
| CS 880-25601/1-A | Lab Control Sample | 94 | 101 | |
| .CS 880-25602/1-A | Lab Control Sample | 112 | 93 | |
| CSD 880-25601/2-A | Lab Control Sample Dup | 103 | 101 | |
| CSD 880-25602/2-A | Lab Control Sample Dup | 100 | 90 | |
| MB 880-25601/5-A | Method Blank | 99 | 98 | |
| | Method Blank | 79 | 91 | |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | 1CO1 | OTPH1 | t Surrogate Recovery (Acceptance Limits) |
|---------------------|------------------------|----------|----------|--|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-14703-A-1-C MS | Matrix Spike | 75 | 71 | |
| 880-14703-A-1-D MSD | Matrix Spike Duplicate | 74 | 71 | |
| 890-2291-A-1-C MS | Matrix Spike | 92 | 80 | |
| 890-2291-A-1-D MSD | Matrix Spike Duplicate | 82 | 72 | |
| 890-2293-1 | PH01A | 102 | 111 | |
| 890-2293-2 | PH01B | 115 | 121 | |
| 890-2293-3 | PH02A | 98 | 102 | |
| 890-2293-4 | PH02B | 115 | 115 | |
| 890-2293-5 | PH03A | 91 | 96 | |
| 890-2293-6 | PH03B | 95 | 101 | |
| 890-2293-7 | PH04A | 105 | 109 | |
| 890-2293-8 | PH04B | 101 | 102 | |
| LCS 880-25316/2-A | Lab Control Sample | 118 | 113 | |
| LCS 880-25396/2-A | Lab Control Sample | 104 | 103 | |
| LCSD 880-25316/3-A | Lab Control Sample Dup | 120 | 116 | |
| LCSD 880-25396/3-A | Lab Control Sample Dup | 107 | 106 | |
| MB 880-25316/1-A | Method Blank | 97 | 109 | |
| MB 880-25396/1-A | Method Blank | 99 | 107 | |

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Released to Imaging: 9/19/2022 3:35:36 PM

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25601/5-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25601

| | МВ | МВ | | | | | | | |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | 05/16/22 09:24 | 05/16/22 15:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 | 05/16/22 09:24 | 05/16/22 15:54 | 1 |

Lab Sample ID: LCS 880-25601/1-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25601

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09745 | | mg/Kg | | 97 | 70 - 130 | |
| Toluene | 0.100 | 0.09612 | | mg/Kg | | 96 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08365 | | mg/Kg | | 84 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1726 | | mg/Kg | | 86 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08729 | | mg/Kg | | 87 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 94 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | 70 - 130 |

Lab Sample ID: LCSD 880-25601/2-A

Matrix: Solid

Analysis Batch: 25595

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

Prep Batch: 25601

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1059 | | mg/Kg | | 106 | 70 - 130 | 8 | 35 |
| Toluene | 0.100 | 0.1041 | | mg/Kg | | 104 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.100 | 0.09131 | | mg/Kg | | 91 | 70 - 130 | 9 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1918 | | mg/Kg | | 96 | 70 - 130 | 11 | 35 |
| o-Xylene | 0.100 | 0.09679 | | mg/Kg | | 97 | 70 - 130 | 10 | 35 |

LCSD LCSD

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

Lab Sample ID: 880-14535-A-1-E MS

Matrix: Solid

Analysis Batch: 25595

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

Prep Batch: 25601

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.100 | 0.08773 | | mg/Kg | | 87 | 70 - 130 | |
| Toluene | <0.00199 | U | 0.100 | 0.08825 | | mg/Kg | | 88 | 70 - 130 | |

QC Sample Results

Client: Ensolum Job ID: 890-2293-1 SDG: 03A1987013 Project/Site: EP USA 5

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

Lab Sample ID: 880-14535-A-1-E MS **Client Sample ID: Matrix Spike Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 25595 Prep Batch: 25601 Spike Sample Sample

| | Sample | Sample | Spike | IVIO | IVIO | | | | /onec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.07500 | | mg/Kg | | 75 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U F1 | 0.201 | 0.1553 | | mg/Kg | | 77 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.100 | 0.07812 | | mg/Kg | | 78 | 70 - 130 | |

MS MS Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 70 - 130 108 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 880-14535-A-1-F MSD

Matrix: Solid

Analysis Batch: 25595

Prep Batch: 25601 Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <0.00199 U 0.100 0.07517 75 70 - 130 15 35 Benzene mg/Kg Toluene <0.00199 U 0.07965 79 70 - 130 35 0.100 mg/Kg 10 Ethylbenzene <0.00199 U 0.100 0.07106 mg/Kg 71 70 - 130 5 35 m-Xylene & p-Xylene <0.00398 UF1 0.200 0.1390 F1 69 70 - 130 11 35 mq/Kq <0.00199 U 0.100 70 o-Xylene 0.07011 mg/Kg 70 - 13035 11

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 106 1,4-Difluorobenzene (Surr) 102 70 - 130

Lab Sample ID: MB 880-25602/5-A

Matrix: Solid

Analysis Batch: 25594

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 25602

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MB MB Result Qualifier MDL Unit **Analyte** RL **Prepared** Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 05/16/22 09:29 05/16/22 14:48 Toluene <0.00200 U 0.00200 mg/Kg 05/16/22 09:29 05/16/22 14:48 Ethylbenzene <0.00200 U 0.00200 mg/Kg 05/16/22 09:29 05/16/22 14:48 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 05/16/22 09:29 05/16/22 14:48 05/16/22 09:29 05/16/22 14:48 o-Xylene <0.00200 U 0.00200 mg/Kg Xylenes, Total <0.00400 U 0.00400 05/16/22 09:29 05/16/22 14:48 mg/Kg

MB MB Surrogate Qualifier I imits Dil Fac %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 05/16/22 09:29 05/16/22 14:48 79 1,4-Difluorobenzene (Surr) 91 70 - 130 05/16/22 09:29 05/16/22 14:48

Lab Sample ID: LCS 880-25602/1-A

| Matrix: Solid Analysis Batch: 25594 | | | | | | | | e: Total/NA atch: 25602 |
|--|-------|--------|-----------|-------|---|------|----------|-------------------------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1120 | | mg/Kg | | 112 | 70 - 130 | |
| Toluene | 0.100 | 0.1170 | | mg/Kg | | 117 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1145 | | mg/Kg | | 115 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2273 | | mg/Kg | | 114 | 70 - 130 | |

QC Sample Results

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: LCS 880-25602/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 25594** Prep Batch: 25602

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.1129 mg/Kg 113 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: LCSD 880-25602/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 25594 Prep Batch: 25602

| | Spike | LCSD LCSD | | | %Rec | | RPD |
|---------------------|-------|------------------|--------|------|----------|-----|-------|
| Analyte | Added | Result Qualifier | Unit [| %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1007 | mg/Kg | 101 | 70 - 130 | 11 | 35 |
| Toluene | 0.100 | 0.1075 | mg/Kg | 108 | 70 - 130 | 8 | 35 |
| Ethylbenzene | 0.100 | 0.1068 | mg/Kg | 107 | 70 - 130 | 7 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2165 | mg/Kg | 108 | 70 - 130 | 5 | 35 |
| o-Xylene | 0.100 | 0.1056 | mg/Kg | 106 | 70 - 130 | 7 | 35 |
| | | | | | | | |

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 70 - 130 1,4-Difluorobenzene (Surr) 90 70 - 130

Lab Sample ID: 890-2293-8 MS Client Sample ID: PH04B **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25594 Prep Batch: 25602

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|-----------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.101 | 0.1032 | | mg/Kg | _ | 102 | 70 - 130 | |
| Toluene | < 0.00199 | U | 0.101 | 0.1059 | | mg/Kg | | 105 | 70 - 130 | |
| Ethylbenzene | < 0.00199 | U | 0.101 | 0.1057 | | mg/Kg | | 105 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.202 | 0.2157 | | mg/Kg | | 107 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.101 | 0.1050 | | mg/Kg | | 104 | 70 - 130 | |

MS MS %Recovery Qualifier Limits 103 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 70 - 130 94

Lab Sample ID: 890-2293-8 MSD Client Sample ID: PH04B **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 25594** Prep Batch: 25602

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00199 | U | 0.101 | 0.1120 | | mg/Kg | | 111 | 70 - 130 | 8 | 35 |
| Toluene | <0.00199 | U | 0.101 | 0.1046 | | mg/Kg | | 104 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00199 | U | 0.101 | 0.1040 | | mg/Kg | | 103 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.201 | 0.2099 | | mg/Kg | | 104 | 70 - 130 | 3 | 35 |
| o-Xylene | <0.00199 | U | 0.101 | 0.1020 | | mg/Kg | | 101 | 70 - 130 | 3 | 35 |

Client: Ensolum Project/Site: EP USA 5

Job ID: 890-2293-1 SDG: 03A1987013

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

Lab Sample ID: 890-2293-8 MSD

Matrix: Solid

Analysis Batch: 25594

Client Sample ID: PH04B Prep Type: Total/NA

Prep Batch: 25602

MSD MSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | 70 - 130 |

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

Lab Sample ID: MB 880-25316/1-A

Matrix: Solid

Analysis Batch: 25321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25316

MR MR

| | IVID | IVID | | | | | | | |
|-----------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 10:55 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 10:55 | 1 |
| C10-C28) | | | | | | | | | |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/11/22 09:33 | 05/11/22 10:55 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 130 | 05/11/22 09:33 | 05/11/22 10:55 | 1 |
| o-Terphenyl | 109 | | 70 - 130 | 05/11/22 09:33 | 05/11/22 10:55 | 1 |

Lab Sample ID: LCS 880-25316/2-A

Matrix: Solid

Analysis Batch: 25321

Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 25316

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 916.7 mg/Kg 92 70 - 130(GRO)-C6-C10 Diesel Range Organics (Over 1000 1109 mg/Kg 111 70 - 130

C10-C28)

| | LCS | | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 118 | | 70 - 130 |
| o-Ternhenyl | 113 | | 70 - 130 |

Lab Sample ID: LCSD 880-25316/3-A

Released to Imaging: 9/19/2022 3:35:36 PM

Matrix: Solid

Analysis Batch: 25321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 25316

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 954.5 mg/Kg 95 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1119 mg/Kg 112 70 - 130 20

C10-C28)

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 120 | | 70 - 130 |
| o-Terphenyl | 116 | | 70 - 130 |

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: 890-2291-A-1-C MS

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

Prep Batch: 25316

| • | Sample | Sample | Spike | MS | MS | | | | %Rec |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 1064 | | mg/Kg | | 104 | 70 - 130 |
| Diesel Range Organics (Over | <50.0 | U F1 | 1000 | 804.5 | | mg/Kg | | 76 | 70 - 130 |

C10-C28)

Matrix: Solid

Analysis Batch: 25321

| | MS | MS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 92 | | 70 - 130 |
| o-Terphenyl | 80 | | 70 - 130 |

Lab Sample ID: 890-2291-A-1-D MSD

Analysis Batch: 25321

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

Prep Batch: 25316

Sample Sample MSD MSD Spike %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics <50.0 U 998 1056 103 70 - 130 1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 <50.0 U F1 724.0 F1 mg/Kg 68 70 - 130 11 C10-C28)

MSD MSD

| Surrogate | 7₀Recovery | Qualifier | LIIIIII |
|----------------|------------|-----------|----------|
| 1-Chlorooctane | 82 | | 70 - 130 |
| o-Terphenyl | 72 | | 70 - 130 |

Lab Sample ID: MB 880-25396/1-A

Matrix: Solid

Analysis Batch: 25380

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25396

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 05/12/22 10:01 05/12/22 11:00 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/12/22 10:01 05/12/22 11:00 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/12/22 10:01 05/12/22 11:00

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 11:00 | 1 |
| o-Terphenyl | 107 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 11:00 | 1 |

Lab Sample ID: LCS 880-25396/2-A

Matrix: Solid

Analysis Batch: 25380

| Client Sample ID | : Lab Control Sample |
|------------------|----------------------|
| | Pren Type: Total/NA |

Prep Batch: 25396

| 7 mary ord Datom 20000 | | | | | | | | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 1140 | | mg/Kg | | 114 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 1052 | | mg/Kg | | 105 | 70 - 130 | |
| C10-C28) | | | | | | | | |

Client: Ensolum Job ID: 890-2293-1 SDG: 03A1987013 Project/Site: EP USA 5

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

Lab Sample ID: LCS 880-25396/2-A

Matrix: Solid

Analysis Batch: 25380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25396

LCS LCS

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 104 70 - 130 o-Terphenyl 103 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-25396/3-A

Matrix: Solid

Analysis Batch: 25380

Prep Type: Total/NA

Prep Batch: 25396

RPD %Rec Limit

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 1194 mg/Kg 119 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1136 mg/Kg 114 70 - 130 8 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 70 - 130 o-Terphenyl 106

Lab Sample ID: 880-14703-A-1-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 25380

Prep Type: Total/NA

Prep Batch: 25396

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec <50.0 U Gasoline Range Organics 1000 935.7 mg/Kg 94 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over <50.0 U 779.4 mg/Kg 78 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 75 o-Terphenyl 71 70 - 130

Lab Sample ID: 880-14703-A-1-D MSD

Matrix: Solid

Analysis Batch: 25380

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25396 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Gasoline Range Organics <50.0 U 998 902.2 90 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 761.7 mg/Kg 76 70 - 130 2 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 74 70 - 130 71 o-Terphenyl 70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: PH01B

Client Sample ID: PH01B

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: Ensolum Job ID: 890-2293-1 SDG: 03A1987013 Project/Site: EP USA 5

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25336/1-A

Analysis Batch: 25504

Matrix: Solid

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 5.00 05/13/22 15:09 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-25336/2-A

Matrix: Solid

Analysis Batch: 25504

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 90 - 110 Chloride 244.0 mg/Kg 98

Lab Sample ID: LCSD 880-25336/3-A

Matrix: Solid

Analysis Batch: 25504

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD Analyte** Unit D %Rec Limit Chloride 250 251.4 20 mg/Kg

Lab Sample ID: 890-2293-2 MS

Matrix: Solid

Analysis Batch: 25504

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2510 3068 Chloride 529 mg/Kg 101 90 - 110

Lab Sample ID: 890-2293-2 MSD

Matrix: Solid

Analysis Batch: 25504

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added RPD Result Qualifier Unit %Rec Limits Limit Chloride 529 2510 3062 101 mg/Kg 90 - 110

Lab Sample ID: MB 880-25729/1-A

Matrix: Solid

Analysis Batch: 25767

MB MB

Result Qualifier **MDL** Unit Analyte RL Dil Fac Prepared Analyzed 5.00 05/17/22 22:07 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-25729/2-A

Matrix: Solid

Analysis Batch: 25767

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec 250 Chloride 242.0 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-25729/3-A

Matrix: Solid

Analysis Batch: 25767

Spike LCSD LCSD %Rec **RPD** Added **RPD** Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 242.9 mg/Kg 97 90 - 110 20

QC Sample Results

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-14878-A-1-C MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25767

| • | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chloride | 1950 | | 2480 | 4423 | | mg/Kg | | 100 | 90 - 110 | | |

Lab Sample ID: 880-14878-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Matrix: Solid Analysis Batch: 25767

RPD Sample Sample Spike MSD MSD %Rec **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 1950 2480 4427 100 90 - 110 0 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

GC VOA

Analysis Batch: 25594

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2293-8 | PH04B | Total/NA | Solid | 8021B | 25602 |
| MB 880-25602/5-A | Method Blank | Total/NA | Solid | 8021B | 25602 |
| LCS 880-25602/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 25602 |
| LCSD 880-25602/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 25602 |
| 890-2293-8 MS | PH04B | Total/NA | Solid | 8021B | 25602 |
| 890-2293-8 MSD | PH04B | Total/NA | Solid | 8021B | 25602 |

Analysis Batch: 25595

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2293-1 | PH01A | Total/NA | Solid | 8021B | 25601 |
| 890-2293-2 | PH01B | Total/NA | Solid | 8021B | 25601 |
| 890-2293-3 | PH02A | Total/NA | Solid | 8021B | 25601 |
| 890-2293-4 | PH02B | Total/NA | Solid | 8021B | 25601 |
| 890-2293-5 | PH03A | Total/NA | Solid | 8021B | 25601 |
| 890-2293-6 | PH03B | Total/NA | Solid | 8021B | 25601 |
| 890-2293-7 | PH04A | Total/NA | Solid | 8021B | 25601 |
| MB 880-25601/5-A | Method Blank | Total/NA | Solid | 8021B | 25601 |
| LCS 880-25601/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 25601 |
| LCSD 880-25601/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 25601 |
| 880-14535-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 25601 |
| 880-14535-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 25601 |

Prep Batch: 25601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2293-1 | PH01A | Total/NA | Solid | 5035 | |
| 890-2293-2 | PH01B | Total/NA | Solid | 5035 | |
| 890-2293-3 | PH02A | Total/NA | Solid | 5035 | |
| 890-2293-4 | PH02B | Total/NA | Solid | 5035 | |
| 890-2293-5 | PH03A | Total/NA | Solid | 5035 | |
| 890-2293-6 | PH03B | Total/NA | Solid | 5035 | |
| 890-2293-7 | PH04A | Total/NA | Solid | 5035 | |
| MB 880-25601/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-25601/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-25601/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-14535-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-14535-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 25602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batc |
|--------------------|------------------------|-----------|--------|--------|-----------|
| 890-2293-8 | PH04B | Total/NA | Solid | 5035 | |
| MB 880-25602/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-25602/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-25602/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2293-8 MS | PH04B | Total/NA | Solid | 5035 | |
| 890-2293-8 MSD | PH04B | Total/NA | Solid | 5035 | |

Analysis Batch: 25664

| Lab Sample ID 890-2293-1 | Client Sample ID PH01A | Prep Type Total/NA | Matrix Solid | Method Total BTEX | Prep Batch |
|-----------------------------|------------------------|--------------------|-----------------|-------------------|------------|
| 890-2293-2 | PH01B | Total/NA | Solid | Total BTEX | |
| 890-2293-3 | PH02A | Total/NA | Solid | Total BTEX | |

QC Association Summary

 Client: Ensolum
 Job ID: 890-2293-1

 Project/Site: EP USA 5
 SDG: 03A1987013

GC VOA (Continued)

Analysis Batch: 25664 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2293-4 | PH02B | Total/NA | Solid | Total BTEX | |
| 890-2293-5 | PH03A | Total/NA | Solid | Total BTEX | |
| 890-2293-6 | PH03B | Total/NA | Solid | Total BTEX | |
| 890-2293-7 | PH04A | Total/NA | Solid | Total BTEX | |
| 890-2293-8 | PH04B | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 25316

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2293-1 | PH01A | Total/NA | Solid | 8015NM Prep | |
| 890-2293-2 | PH01B | Total/NA | Solid | 8015NM Prep | |
| 890-2293-3 | PH02A | Total/NA | Solid | 8015NM Prep | |
| 890-2293-4 | PH02B | Total/NA | Solid | 8015NM Prep | |
| MB 880-25316/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25316/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25316/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2291-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-2291-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 25321

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2293-1 | PH01A | Total/NA | Solid | 8015B NM | 25316 |
| 890-2293-2 | PH01B | Total/NA | Solid | 8015B NM | 25316 |
| 890-2293-3 | PH02A | Total/NA | Solid | 8015B NM | 25316 |
| 890-2293-4 | PH02B | Total/NA | Solid | 8015B NM | 25316 |
| MB 880-25316/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25316 |
| LCS 880-25316/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25316 |
| LCSD 880-25316/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25316 |
| 890-2291-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25316 |
| 890-2291-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25316 |

Analysis Batch: 25380

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2293-5 | PH03A | Total/NA | Solid | 8015B NM | 25396 |
| 890-2293-6 | PH03B | Total/NA | Solid | 8015B NM | 25396 |
| 890-2293-7 | PH04A | Total/NA | Solid | 8015B NM | 25396 |
| 890-2293-8 | PH04B | Total/NA | Solid | 8015B NM | 25396 |
| MB 880-25396/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25396 |
| LCS 880-25396/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25396 |
| LCSD 880-25396/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25396 |
| 880-14703-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25396 |
| 880-14703-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25396 |

Analysis Batch: 25393

| Lab Sample ID 890-2293-1 | Client Sample ID PH01A | Prep Type Total/NA | Matrix Solid | Method 8015 NM | Prep Batch |
|------------------------------------|------------------------|--------------------|-----------------|-------------------|------------|
| 890-2293-2 | PH01B | Total/NA | Solid | 8015 NM | |
| 890-2293-3 | PH02A | Total/NA | Solid | 8015 NM | |
| 890-2293-4 | PH02B | Total/NA | Solid | 8015 NM | |
| 890-2293-5 | PH03A | Total/NA | Solid | 8015 NM | |

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Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

GC Semi VOA (Continued)

Analysis Batch: 25393 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2293-6 | PH03B | Total/NA | Solid | 8015 NM | |
| 890-2293-7 | PH04A | Total/NA | Solid | 8015 NM | |
| 890-2293-8 | PH04B | Total/NA | Solid | 8015 NM | |

Prep Batch: 25396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2293-5 | PH03A | Total/NA | Solid | 8015NM Prep | |
| 890-2293-6 | PH03B | Total/NA | Solid | 8015NM Prep | |
| 890-2293-7 | PH04A | Total/NA | Solid | 8015NM Prep | |
| 890-2293-8 | PH04B | Total/NA | Solid | 8015NM Prep | |
| MB 880-25396/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25396/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25396/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-14703-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-14703-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

HPLC/IC

Leach Batch: 25336

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2293-1 | PH01A | Soluble | Solid | DI Leach | |
| 890-2293-2 | PH01B | Soluble | Solid | DI Leach | |
| 890-2293-3 | PH02A | Soluble | Solid | DI Leach | |
| 890-2293-4 | PH02B | Soluble | Solid | DI Leach | |
| 890-2293-5 | PH03A | Soluble | Solid | DI Leach | |
| 890-2293-7 | PH04A | Soluble | Solid | DI Leach | |
| 890-2293-8 | PH04B | Soluble | Solid | DI Leach | |
| MB 880-25336/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25336/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25336/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2293-2 MS | PH01B | Soluble | Solid | DI Leach | |
| 890-2293-2 MSD | PH01B | Soluble | Solid | DI Leach | |

Analysis Batch: 25504

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2293-1 | PH01A | Soluble | Solid | 300.0 | 25336 |
| 890-2293-2 | PH01B | Soluble | Solid | 300.0 | 25336 |
| 890-2293-3 | PH02A | Soluble | Solid | 300.0 | 25336 |
| 890-2293-4 | PH02B | Soluble | Solid | 300.0 | 25336 |
| 890-2293-5 | PH03A | Soluble | Solid | 300.0 | 25336 |
| 890-2293-7 | PH04A | Soluble | Solid | 300.0 | 25336 |
| 890-2293-8 | PH04B | Soluble | Solid | 300.0 | 25336 |
| MB 880-25336/1-A | Method Blank | Soluble | Solid | 300.0 | 25336 |
| LCS 880-25336/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25336 |
| LCSD 880-25336/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25336 |
| 890-2293-2 MS | PH01B | Soluble | Solid | 300.0 | 25336 |
| 890-2293-2 MSD | PH01B | Soluble | Solid | 300.0 | 25336 |

Leach Batch: 25729

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2293-6 | PH03B | Soluble | Solid | DI Leach | |

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

HPLC/IC (Continued)

Leach Batch: 25729 (Continued)

| Lab Sample ID MB 880-25729/1-A | Client Sample ID Method Blank | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|---------------------------------------|--------------------------------|-------------------|-----------------|-----------------|------------|
| LCS 880-25729/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25729/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-14878-A-1-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-14878-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 25767

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2293-6 | PH03B | Soluble | Solid | 300.0 | 25729 |
| MB 880-25729/1-A | Method Blank | Soluble | Solid | 300.0 | 25729 |
| LCS 880-25729/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25729 |
| LCSD 880-25729/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25729 |
| 880-14878-A-1-C MS | Matrix Spike | Soluble | Solid | 300.0 | 25729 |
| 880-14878-A-1-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 25729 |

Job ID: 890-2293-1

SDG: 03A1987013

Client Sample ID: PH01A Date Collected: 05/09/22 09:00

Client: Ensolum

Project/Site: EP USA 5

Lab Sample ID: 890-2293-1

Date Received: 05/10/22 08:39

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 21:49 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 25316 | 05/11/22 09:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25321 | 05/11/22 19:00 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 20 | | | 25504 | 05/13/22 18:54 | CH | XEN MID |

Client Sample ID: PH01B Lab Sample ID: 890-2293-2 Date Collected: 05/09/22 13:20

Date Received: 05/10/22 08:39

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.04 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 22:10 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25316 | 05/11/22 09:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25321 | 05/11/22 19:21 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 10 | | | 25504 | 05/13/22 19:03 | CH | XEN MID |

Lab Sample ID: 890-2293-3 Client Sample ID: PH02A Date Collected: 05/09/22 10:20 Matrix: Solid

Date Received: 05/10/22 08:39

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 25601 Prep 5.00 g 5 mL 05/16/22 09:24 MR XEN MID Total/NA 8021B 5 mL Analysis 1 5 mL 25595 05/16/22 22:30 MR XEN MID Total/NA Total BTEX Analysis 1 25664 05/16/22 17:06 SM XEN MID Total/NA Analysis 8015 NM 25393 05/12/22 09:42 SM **XEN MID** Total/NA Prep 8015NM Prep 25316 05/11/22 09:33 DM XEN MID 10.02 g 10 mL Total/NA Analysis 8015B NM 25321 05/11/22 19:43 SM XEN MID 50 mL Soluble 25336 XEN MID Leach DI Leach 5.03 g 05/11/22 10:16 SC 05/13/22 19:31 CH 5 25504

Client Sample ID: PH02B Lab Sample ID: 890-2293-4 Date Collected: 05/09/22 10:25 Matrix: Solid

Date Received: 05/10/22 08:39

Analysis

300.0

Soluble

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 22:51 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |

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XEN MID

Job ID: 890-2293-1

SDG: 03A1987013

Client Sample ID: PH02B Date Collected: 05/09/22 10:25

Client: Ensolum

Project/Site: EP USA 5

Lab Sample ID: 890-2293-4

Date Received: 05/10/22 08:39

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25316 | 05/11/22 09:33 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25321 | 05/11/22 20:05 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25504 | 05/13/22 19:40 | CH | XEN MID |

Lab Sample ID: 890-2293-5

Client Sample ID: PH03A Date Collected: 05/09/22 10:35

Matrix: Solid

Date Received: 05/10/22 08:39

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 23:12 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 15:42 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25504 | 05/13/22 20:08 | CH | XEN MID |

Client Sample ID: PH03B Lab Sample ID: 890-2293-6

Date Collected: 05/09/22 10:55

Matrix: Solid

Date Received: 05/10/22 08:39

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------------------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 23:33 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | 4 | 10.00 g | 10 mL | 25396 | 05/12/22 10:01 05/12/22 16:03 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | ı | | | 25380 | | | XEN MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 25729 | 05/17/22 16:00 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 5 | | | 25767 | 05/18/22 02:38 | CH | XEN MID |

Client Sample ID: PH04A Lab Sample ID: 890-2293-7 Date Collected: 05/09/22 11:55 Matrix: Solid

Date Received: 05/10/22 08:39

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|---------|--------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 25601 | 05/16/22 09:24 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25595 | 05/16/22 23:53 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g | 10 mL | 25396 25380 | 05/12/22 10:01 05/12/22 16:47 | DM SM | XEN MID XEN MID |

Lab Chronicle

Client: Ensolum Job ID: 890-2293-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH04A

Date Collected: 05/09/22 11:55 Date Received: 05/10/22 08:39

Lab Sample ID: 890-2293-7

Matrix: Solid

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25504 | 05/16/22 13:50 | СН | XEN MID |

Client Sample ID: PH04B Lab Sample ID: 890-2293-8

Date Collected: 05/09/22 13:50 Date Received: 05/10/22 08:39

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 25602 | 05/16/22 09:29 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 25594 | 05/16/22 15:17 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25664 | 05/16/22 17:06 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25393 | 05/12/22 09:42 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 17:09 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 25336 | 05/11/22 10:16 | SC | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25504 | 05/16/22 13:59 | CH | XEN MID |

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-2293-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|---------------------|------------------------------|---|--|
| Texas | NE | ELAP | T104704400-21-22 | 06-30-22 |
| The following analyte the agency does not | • | ort, but the laboratory is r | not certified by the governing authority. | This list may include analytes for which |
| and againey dood not | oner certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 0 , | | Matrix Solid | Analyte Total TPH | |

-0

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Method Summary

Client: Ensolum Project/Site: EP USA 5 Job ID: 890-2293-1

SDG: 03A1987013

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: EP USA 5

Job ID: 890-2293-1

SDG: 03A1987013

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2293-1 | PH01A | Solid | 05/09/22 09:00 | 05/10/22 08:39 | 1 |
| 890-2293-2 | PH01B | Solid | 05/09/22 13:20 | 05/10/22 08:39 | 11 |
| 890-2293-3 | PH02A | Solid | 05/09/22 10:20 | 05/10/22 08:39 | 1 |
| 890-2293-4 | PH02B | Solid | 05/09/22 10:25 | 05/10/22 08:39 | 3 |
| 890-2293-5 | PH03A | Solid | 05/09/22 10:35 | 05/10/22 08:39 | 1 |
| 890-2293-6 | PH03B | Solid | 05/09/22 10:55 | 05/10/22 08:39 | 11 |
| 890-2293-7 | PH04A | Solid | 05/09/22 11:55 | 05/10/22 08:39 | 5 |
| 890-2293-8 | PH04B | Solid | 05/09/22 13:50 | 05/10/22 08:39 | 6 |

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Page

Work Order No:

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

eurofins 💸

Xenco

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

| Project Manager: UIO Company Name: E.Y Address: 3.12 | Lacoration Toracoli | 0.000 | | | | | - | | | | |
|--|---------------------|----------------------|------------------------|--------------------------------|-------------------------|-----|------|---------------------|---------------------------|-------------------------------|---|
| | | 7 | 120 | Bill to: (if different) | fferent) | 3 | | LIPO KCIT | 5 | Work Orc | Work Order Comments |
| | FINSOlum | | | Company Name: | Jame: | 3 | MPX | Deva | 8 | Program: UST/PST ☐ PRP ☐ | Brownfields ☐ RRC ☐ Superfund ☐ |
| | 3122 NOTH PRIKL | PARKI | HWY. | Address: | | ů. | 5315 | BUELLA | na Vista pr | State of Project: | |
| City, State ZIP: | CESTY MW, DOGINGS | JM 93 | CT | City, State ZIP: | ZIP: | 3 | risb | Caribbad | UN 98220 | Reporting: Level II Level III | Reporting: Level III PST/UST TRRP Level IV |
| Phone: 28 | 281-707-2329 | 2329 | Email: | | COO | 730 | Be | Incroadez @ensolum. | Vm - Com | Deliverables: EDD | ADaPT Other: |
| Project Name: | ED USA S | | Turn | Turn Around | | | | | ANALYSIS REQUEST | EST | Preservative Codes |
| er: | 0341987013 | 513 | Routine | Rush | Pres. Code | | | | | | None: NO DI Water: H ₂ O |
| | | | Due Date: | | | (0 | | | | | Cool: Cool MeOH: Me |
| U | onner shore | nore | TAT starts the day | day received by | by | 008 | | | - | | |
| PO #: | | | the lab, if rec | the lab, if received by 4:30pm | | | | | | | H ₂ SO ₄ : H ₂ NaOH: Na |
| SAMPLE RECEIPT | Temp Blank: | (Yes) No | Wet Ice: | (Per No | eter | | | (1 | | | H₃PO ₄: HP |
| Samples Received Intact: | ₩ Mo | Thermometer ID: | er ID: | 1-10 | 5 | | (| 20 | | | NaHSO 4: NABIS |
| Cooler Custody Seals: | Yes No MA | Correction Factor: | actor: | 1-0- | | | OK | OK T | | | Na ₂ S ₂ O ₃ : NaSO ₃ |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | e Reading: | 6.0 | | 01 | (4 |) | 890-2293 Chain of Custody | n of Custody | Zn Acetate+NaOH: Zn |
| Total Containers: | | Corrected T | Corrected Temperature: | S. 89 | | 101 | + | X | | - | NaOH+Ascorbic Acid: SAPC |
| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ # of Comp Cont | | 197 | 318 | | | Sample Comments |
| PHOIA | S | 519122 | 00:10 | 1. | 6 | × | У | х | | | |
| MIOHA | S | 519152 | 四:50 | 111 | 5 | × | X | × | | | |
| PHO 2 A | V) | 5/9/22 | 10:15 | 1.1 | G. | × | Y | X | | | |
| PHO2 C | S | 121615 | 10.35 | 50 | - O | × | × | ¥ | | | |
| PHO3 A | S | 5/9/21 | (0:55 | - 1 | <u>-</u> | × | У | × | | | |
| PHOSK | S | 2/0/5 | 11:55 | - | 9 | × | × | × | | | |
| SHOHE | v | 12/6/5 | Sh:81 | (S) | - | × | Х | X | | | |
| 4 HOHA | N | 216/51 | 13:50 | , 0 | 9 | × | V | × | | | |
| | | | | | | | | | | | |
| | | | | | | | | _ | | | |

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Circle Method(s) and Metal(s) to be analyzed

sed Date: 08/25/2020 Rev. 2020 Date/Time Received by: (Signature) Relinquished by: (Signature) 639 Date/Time 5/10/12 Received by: (Signature) Relinquished by: (Signature)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2293-1

SDG Number: 03A1987013

Login Number: 2293 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2293-1 SDG Number: 03A1987013

Login Number: 2293 **List Source: Eurofins Midland** List Creation: 05/11/22 11:29 AM List Number: 2

Creator: Teel, Brianna

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2300-1

Laboratory Sample Delivery Group: 03A1987013

Client Project/Site: EP USA 5

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 5/25/2022 4:26:17 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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Released to Imaging: 9/19/2022 3:35:36 PM

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

Client: Ensolum
Project/Site: EP USA 5
Laboratory Job ID: 890-2300-1
SDG: 03A1987013

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Definitions/Glossary

 Client: Ensolum
 Job ID: 890-2300-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

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
 Job ID: 890-2300-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Job ID: 890-2300-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2300-1

REVISION

The report being provided is a revision of the original report sent on 5/17/2022. The report (revision 1) is being revised due to Per client email, requesting TPH re run on PH10A and PH10B.

Report revision history

Receipt

The samples were received on 5/11/2022 11:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25635 and analytical batch 880-25594 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25635 and analytical batch 880-25594 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH10B (890-2300-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25450 and analytical batch 880-25617 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Eurofins Carlsbad 5/25/2022 (Rev. 1)

Client Sample ID: PH09A Lab Sample ID: 890-2300-1

Date Collected: 05/09/22 14:15 Matrix: Solid Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:12 | • |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 12:12 | |
| 1,4-Difluorobenzene (Surr) | 81 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 12:12 | • |
| Method: Total BTEX - Total B | ΓEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 05/17/22 14:01 | • |
| Method: 8015 NM - Diesel Rai | nge Organic | s (DRO) (0 | SC) | | | | | | |
| Analyte | _ | Qualifier | , RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 05/16/22 11:36 | • |
| Method: 8015B NM - Diesel R | ange Organ | ics (DRO) | (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 05:42 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 05:42 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 05:42 | • |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1-Chlorooctane | 92 | | 70 - 130 | | | | 05/12/22 13:37 | 05/14/22 05:42 | |
| o-Terphenyl | 86 | | 70 - 130 | | | | 05/12/22 13:37 | 05/14/22 05:42 | • |
| Method: 300.0 - Anions, Ion C | hromatogra | phy - Solu | ıble | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chlorido | 74.7 | | 4.06 | | ma/Ka | | | 05/16/22 22:59 | |

Chloride 74.7 4.96 05/16/22 23:58 mg/Kg Lab Sample ID: 890-2300-2

Date Collected: 05/09/22 14:20 Date Received: 05/11/22 11:24

Client Sample ID: PH09B

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 12:38 | 1 |

Eurofins Carlsbad

Matrix: Solid

Client Sample ID: PH09B Date Collected: 05/09/22 14:20

Lab Sample ID: 890-2300-2

Date Received: 05/11/22 11:24

Matrix: Solid

Sample Depth: 1

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

| Surrogate | %Recovery Qualif | tier Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|------------------|-------------|--------------------|--------------|---------|
| 1,4-Difluorobenzene (Surr) | 89 | 70 - 130 | 05/16/22 13:18 05/ | /17/22 12:38 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | ma/Ka | | | 05/17/22 14:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|----------|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | ma/l | <u> </u> | | 05/16/22 11:36 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 06:04 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 06:04 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 05/12/22 13:37 | 05/14/22 06:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94 | | 70 - 130 | 05/12/22 13:37 | 05/14/22 06:04 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | 05/12/22 13:37 | 05/14/22 06:04 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifi | | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------------|------|----------|---|----------|----------------|---------|
| Chloride | 227 | 5.04 | mg/Kg | | | 05/17/22 00:07 | 1 |

Client Sample ID: PH10A Lab Sample ID: 890-2300-3 **Matrix: Solid**

Date Collected: 05/10/22 14:00 Date Received: 05/11/22 11:24

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

| method: our ib - volutile of | game compo | unus (CC) | | | | | | | |
|------------------------------|------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |
| 1,4-Difluorobenzene (Surr) | 93 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 13:04 | 1 |

Method: Total BTEX - Total BTEX Calculation

| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------|-----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| 1 | Total BTEX | < 0.00399 | U | 0.00399 | | mg/Kg | | | 05/17/22 14:01 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | 121 | | 49.9 | mg/Kg | | | 05/16/22 11:36 | 1 |

Lab Sample ID: 890-2300-3

Job ID: 890-2300-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH10A Date Collected: 05/10/22 14:00

Matrix: Solid Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 20:16 | 1 |
| Diesel Range Organics (Over C10-C28) | 53.9 | | 49.9 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 20:16 | 1 |
| Oll Range Organics (Over C28-C36) | 67.3 | | 49.9 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 20:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 104 | | 70 - 130 | | | | 05/18/22 09:02 | 05/18/22 20:16 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | | 05/18/22 09:02 | 05/18/22 20:16 | 1 |

| Method: 300.0 - Anions, ion Chromatography - Soluble | | | | | | | | | |
|--|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 131 | | 5.05 | | mg/Kg | | | 05/17/22 00:17 | 1 |

Client Sample ID: PH10B Lab Sample ID: 890-2300-4

Date Collected: 05/10/22 14:05 Matrix: Solid

Date Received: 05/11/22 11:24

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---------------------------------------|--|-----|-------------------------|----------|---|--|-----------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 95 | | 70 - 130 | | | | 05/16/22 13:18 | 05/17/22 13:30 | 1 |
| Method: Total BTEX - Total B | TEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 05/17/22 14:01 | 1 |
| Method: 8015 NM - Diesel Rar | nge Organic | c (DBO) (C | \ | | | | | | |
| Method. 0013 MM - Diesel Kai | ige Organic | S (DKO) (C | iC) | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | • | Qualifier | • | MDL | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/16/22 11:36 | Dil Fac |
| Analyte | Result <49.9 | Qualifier U | RL 49.9 | MDL | | <u>D</u> | Prepared | | |
| Analyte Total TPH | Result <49.9 | Qualifier U | RL 49.9 | | | <u>D</u> | Prepared Prepared | | |
| Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics | Result <49.9 | Qualifier U ics (DRO) Qualifier | RL 49.9 | | mg/Kg | = | <u> </u> | 05/16/22 11:36 | 1 |
| Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <49.9 ange Organ Result | Qualifier U ics (DRO) Qualifier U | RL 49.9 (GC) | | mg/Kg Unit | = | Prepared | 05/16/22 11:36 Analyzed 05/25/22 01:53 | Dil Fac |
| Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 | Result <49.9 ange Organ Result <49.9 | Qualifier U ics (DRO) Qualifier U | (GC) RL 49.9 | | mg/Kg Unit mg/Kg | = | Prepared 05/24/22 16:02 | 05/16/22 11:36 Analyzed 05/25/22 01:53 05/25/22 01:53 | Dil Fac |
| Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result | Qualifier U ics (DRO) Qualifier U U | RL 49.9 (GC) RL 49.9 49.9 | | mg/Kg Unit mg/Kg mg/Kg | = | Prepared 05/24/22 16:02 05/24/22 16:02 | 05/16/22 11:36 Analyzed 05/25/22 01:53 05/25/22 01:53 | Dil Fac |
| Analyte Total TPH Method: 8015B NM - Diesel Re Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | Qualifier U ics (DRO) Qualifier U U | RL 49.9 (GC) RL 49.9 49.9 | | mg/Kg Unit mg/Kg mg/Kg | = | Prepared 05/24/22 16:02 05/24/22 16:02 05/24/22 16:02 | 05/16/22 11:36 Analyzed 05/25/22 01:53 05/25/22 01:53 | 1 Dil Fac |

Client Sample Results

Client: Ensolum Job ID: 890-2300-1 Project/Site: EP USA 5 SDG: 03A1987013

Lab Sample ID: 890-2300-4 **Client Sample ID: PH10B** Matrix: Solid

Date Collected: 05/10/22 14:05 Date Received: 05/11/22 11:24

Sample Depth: 1

| Method: 300.0 - Anions, Ion Ch | | | | | | | |
|--------------------------------|------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 136 | 4.98 | mg/Kg | | | 05/17/22 00:26 | 1 |

Surrogate Summary

Client: Ensolum Job ID: 890-2300-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | Percent Surrogate Re | ecovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------------------|-----------------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | 70-130) | |
| 890-2298-A-1-H MS | Matrix Spike | 102 | 91 | |
| 890-2298-A-1-I MSD | Matrix Spike Duplicate | 105 | 97 | |
| 890-2300-1 | PH09A | 98 | 81 | |
| 890-2300-2 | PH09B | 93 | 89 | |
| 890-2300-3 | PH10A | 97 | 93 | |
| 890-2300-4 | PH10B | 109 | 95 | |
| LCS 880-25635/1-A | Lab Control Sample | 102 | 91 | |
| LCSD 880-25635/2-A | Lab Control Sample Dup | 102 | 99 | |
| MB 880-25602/5-A | Method Blank | 79 | 91 | |
| MB 880-25635/5-A | Method Blank | 81 | 90 | |

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

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

Matrix: Solid Prep Type: Total/NA

| | | | Per | cent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|---|
| | | 1001 | OTPH1 | |
| ab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-14856-A-1-F MS | Matrix Spike | 110 | 103 | |
| 80-14856-A-1-G MSD | Matrix Spike Duplicate | 97 | 94 | |
| 90-2298-A-1-B MS | Matrix Spike | 109 | 95 | |
| 90-2298-A-1-C MSD | Matrix Spike Duplicate | 93 | 78 | |
| 90-2300-1 | PH09A | 92 | 86 | |
| 90-2300-2 | PH09B | 94 | 88 | |
| 90-2300-3 | PH10A | 104 | 113 | |
| 90-2300-4 | PH10B | 134 S1+ | 126 | |
| 90-2330-A-1-E MS | Matrix Spike | 119 | 102 | |
| 90-2330-A-1-F MSD | Matrix Spike Duplicate | 119 | 102 | |
| .CS 880-25433/2-A | Lab Control Sample | 124 | 106 | |
| .CS 880-25793/2-A | Lab Control Sample | 102 | 109 | |
| .CS 880-26197/2-A | Lab Control Sample | 117 | 106 | |
| .CSD 880-25433/3-A | Lab Control Sample Dup | 114 | 101 | |
| .CSD 880-25793/3-A | Lab Control Sample Dup | 104 | 104 | |
| .CSD 880-26197/3-A | Lab Control Sample Dup | 122 | 110 | |
| /IB 880-25433/1-A | Method Blank | 105 | 113 | |
| ИВ 880-25793/1-A | Method Blank | 125 | 146 S1+ | |
| /IB 880-26197/1-A | Method Blank | 126 | 124 | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2300-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25602/5-A

Matrix: Solid

Analysis Batch: 25594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25602

| | MB | MB | | | | | | | |
|---------------------|-----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| Xylenes, Total | < 0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 09:29 | 05/16/22 14:48 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed |
|-----------------------------|---------------------|----------|----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 79 | 70 - 130 | 05/16/22 09:29 | 05/16/22 14:48 |
| 1,4-Difluorobenzene (Surr) | 91 | 70 - 130 | 05/16/22 09:29 | 05/16/22 14:48 |

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

Prep Batch: 25635

Lab Sample ID: MB 880-25635/5-A

Matrix: Solid

Analysis Batch: 25594

| | MB | MR | | | | | | | |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result (| Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:18 | 05/17/22 04:14 | 1 |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 81 | 70 - 130 | 05/16/22 13:18 | 05/17/22 04:14 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | 70 - 130 | 05/16/22 13:18 | 05/17/22 04:14 | 1 |

Lab Sample ID: LCS 880-25635/1-A

Matrix: Solid

Analysis Batch: 25594

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

Prep Batch: 25635

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09113 | | mg/Kg | | 91 | 70 - 130 | |
| Toluene | 0.100 | 0.09419 | | mg/Kg | | 94 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.09152 | | mg/Kg | | 92 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1841 | | mg/Kg | | 92 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09210 | | mg/Kg | | 92 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 |

Lab Sample ID: LCSD 880-25635/2-A

Matrix: Solid

Analyte Benzene

Analysis Batch: 25594

| | | | Client Sai | mple | ID: Lab | D: Lab Control Sample Dup | | | | | | | | |
|-------|---------|-----------|------------|------|---------|---------------------------|---------|-------|--|--|--|--|--|--|
| | | | | | | Prep Ty | pe: Tot | al/NA | | | | | | |
| | | | | | | Prep Batch: 25635 | | | | | | | | |
| Spike | LCSD | LCSD | | | | %Rec | | RPD | | | | | | |
| Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | | | | | | |
| 0.100 | 0.09243 | | mg/Kg | | 92 | 70 - 130 | 1 | 35 | | | | | | |

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QC Sample Results

Client: Ensolum Job ID: 890-2300-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: LCSD 880-25635/2-A

Matrix: Solid

Analysis Batch: 25594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 25635

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.09593 mg/Kg 96 70 - 130 2 35 Ethylbenzene 0.100 0.09455 mg/Kg 95 70 - 130 3 35 0.200 0.1917 96 70 - 130 35 m-Xylene & p-Xylene mg/Kg 0.100 35 o-Xylene 0.09558 mg/Kg 96 70 - 130

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 |

Lab Sample ID: 890-2298-A-1-H MS **Client Sample ID: Matrix Spike**

Analysis Batch: 25594

Matrix: Solid

Prep Type: Total/NA Prep Batch: 25635

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier D %Rec Limits Unit Benzene <0.00202 U F1 0.100 0.03705 F1 37 70 - 130 mg/Kg Toluene <0.00202 UF1 0.100 0.04088 F1 mg/Kg 41 70 - 130 Ethylbenzene <0.00202 UF1 0.100 0.04240 F1 mg/Kg 42 70 - 130 m-Xylene & p-Xylene 0.200 0.08535 F1 43 <0.00403 UF1 mg/Kg 70 - 130 o-Xylene <0.00202 UF1 0.100 0.04443 F1 mg/Kg 44 70 - 130

MS MS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 91 | 70 - 130 |

Lab Sample ID: 890-2298-A-1-I MSD

Matrix: Solid

Analysis Batch: 25594

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25635

| Alluly 515 Buttoll. 20004 | | | | | | | | | I I CP L | outon. I | -0000 |
|---------------------------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|----------|-------|
| _ | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00202 | U F1 | 0.0996 | 0.04559 | F1 | mg/Kg | | 46 | 70 - 130 | 21 | 35 |
| Toluene | <0.00202 | U F1 | 0.0996 | 0.04983 | F1 | mg/Kg | | 50 | 70 - 130 | 20 | 35 |
| Ethylbenzene | <0.00202 | U F1 | 0.0996 | 0.05013 | F1 | mg/Kg | | 50 | 70 - 130 | 17 | 35 |
| m-Xylene & p-Xylene | < 0.00403 | U F1 | 0.199 | 0.1019 | F1 | mg/Kg | | 51 | 70 - 130 | 18 | 35 |
| o-Xylene | <0.00202 | U F1 | 0.0996 | 0.05180 | F1 | mg/Kg | | 52 | 70 - 130 | 15 | 35 |
| | | | | | | | | | | | |

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 |

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

Lab Sample ID: MB 880-25433/1-A

Matrix: Solid

Analysis Batch: 25490

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

Prep Batch: 25433

MB MB Result Qualifier MDL Unit Analyte RL Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 05/12/22 13:37 05/13/22 21:51

(GRO)-C6-C10

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

Lab Sample ID: MB 880-25433/1-A

Matrix: Solid

Analysis Batch: 25490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25433

| | MB | MB | | | | | | | |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 05/12/22 13:37 | 05/13/22 21:51 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/12/22 13:37 | 05/13/22 21:51 | 1 |
| | MB | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 105 | | 70 - 130 | | | | 05/12/22 13:37 | 05/13/22 21:51 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | | | | 05/12/22 13:37 | 05/13/22 21:51 | 1 |

| Lab Sample ID: LCS 880- Matrix: Solid Analysis Batch: 25490 | 23433/2-A | | | | | Cileii | t Jai | ilipie ib | : Lab Control Sampl Prep Type: Total/N Prep Batch: 2543 |
|---|-----------|-----------|----------|--------|-----------|--------|-------|-----------|---|
| | | | Spike | _ | LCS | | | | %Rec |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 983.1 | | mg/Kg | | 98 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1215 | | mg/Kg | | 121 | 70 - 130 |
| | LCS | LCS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 124 | | 70 - 130 | | | | | | |
| o-Terphenyl | 106 | | 70 - 130 | | | | | | |

| Matrix: Solid Analysis Batch: 25490 | | | | | | | Prep Ty Prep E | - | |
|---|-------|--------|-----------|-------|---|------|-------------------|-----|-------|
| - | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 877.0 | | mg/Kg | | 88 | 70 - 130 | 11 | 20 |
| Diesel Range Organics (Over C10-C28) | 1000 | 1062 | | mg/Kg | | 106 | 70 - 130 | 13 | 20 |

| | | LCSD | LCSD | |
|---|----------------|-----------|-----------|----------|
| ; | Surrogate | %Recovery | Qualifier | Limits |
| 7 | 1-Chlorooctane | 114 | | 70 - 130 |
| (| o-Terphenyl | 101 | | 70 - 130 |

| Lab Sample ID: 890-2298 Matrix: Solid Analysis Batch: 25490 | | Sample | ample Spike | MS | MS | | CI | lient Sa | mple ID: Matrix Spike Prep Type: Total/NA Prep Batch: 25433 %Rec |
|---|-----------|-----------|-------------|------|-----------|-------|----|----------|---|
| Analyte | • | Qualifier | Added | _ | Qualifier | Unit | D | %Rec | Limits |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 1000 | 1070 | | mg/Kg | | 105 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 1102 | | mg/Kg | | 108 | 70 - 130 |
| | MS | MS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1-Chlorooctane | 109 | | 70 - 130 | | | | | | |
| o-Terphenyl | 95 | | 70 - 130 | | | | | | |

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

Lab Sample ID: 890-2298-A-1-C MSD

Matrix: Solid

Analysis Batch: 25490

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25433

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte <50.0 U Gasoline Range Organics 998 914.6 mg/Kg 90 70 - 130 16 20 (GRO)-C6-C10 998 Diesel Range Organics (Over 897.8 88 70 - 130 20 <50.0 U mg/Kg 20

C10-C28)

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 78 | | 70 - 130 |

Lab Sample ID: MB 880-25793/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 25772

MB MB

Prep Type: Total/NA

Prep Batch: 25793

MDL Unit Analyte Result Qualifier RL **Prepared** Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 05/18/22 09:02 05/18/22 11:29 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 05/18/22 09:02 05/18/22 11:29 <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/18/22 09:02 05/18/22 11:29

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 125 | 70 - 130 | 05/18/22 09:02 | 05/18/22 11:29 | 1 |
| o-Terphenyl | 146 S1+ | 70 - 130 | 05/18/22 09:02 | 05/18/22 11:29 | 1 |

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

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

Prep Batch: 25793

Spike LCS LCS %Rec Added Analyte Result Qualifier Limits Unit D %Rec Gasoline Range Organics 1000 70 - 130 1132 mg/Kg 113 (GRO)-C6-C10 Diesel Range Organics (Over 1000 861.2 mg/Kg 86 70 - 130 C10-C28)

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 102 | 70 - 130 |
| o-Terphenyl | 109 | 70 - 130 |

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

| Client Sample | ID: | Lab | Contr | ol | Sample | Dup |
|---------------|-----|-----|-------|----|--------|-----|
| | | | | | | |

Prep Type: Total/NA Prep Batch: 25793

%Rec **RPD**

| | • | | | | | | | | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | 1000 | 1105 | | mg/Kg | | 111 | 70 - 130 | 2 | 20 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 823.0 | | mg/Kg | | 82 | 70 - 130 | 5 | 20 |
| C10-C28) | | | | | | | | | |

LCSD LCSD

Spike

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

LCSD LCSD

Sample Sample

Result Qualifier

MB MB

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25793

%Recovery Qualifier Surrogate

Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: 880-14856-A-1-F MS **Client Sample ID: Matrix Spike**

Analyte

Analysis Batch: 25772

Matrix: Solid Prep Type: Total/NA Prep Batch: 25793

Spike

Added

MS MS

Result Qualifier

Unit

%Rec %Rec Limits 152 70 - 130

70 - 130

Gasoline Range Organics 98.5 F1 1000 1616 F1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 1204 mg/Kg 120 C10-C28) MS MS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 70 - 130 o-Terphenyl 103

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 25793

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec 98.5 F1 70 - 130 Gasoline Range Organics 999 1379 mg/Kg 128 16 20 (GRO)-C6-C10 Diesel Range Organics (Over 999 1072 <50.0 U mg/Kg 107 70 - 130 12 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 97 o-Terphenyl 94 70 - 130

Lab Sample ID: MB 880-26197/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 26134

Prep Type: Total/NA Prep Batch: 26197

| Analyte | Result | Qualifier | RL | MDL U | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------|-----------|------|-------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | r | mg/Kg | | 05/24/22 16:02 | 05/24/22 19:57 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | r | mg/Kg | | 05/24/22 16:02 | 05/24/22 19:57 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | r | mg/Kg | | 05/24/22 16:02 | 05/24/22 19:57 | 1 |
| | MB | MB | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126 | | 70 - 130 | 05/24/22 16:02 | 05/24/22 19:57 | 1 |
| o-Terphenyl | 124 | | 70 - 130 | 05/24/22 16:02 | 05/24/22 19:57 | 1 |

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

Lab Sample ID: LCS 880-26197/2-A

Matrix: Solid

Analysis Batch: 26134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 26197

Prep Type: Total/NA Prep Batch: 26197

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit Gasoline Range Organics 1000 875.1 mg/Kg 88 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 814.5 70 - 130 mg/Kg 81

C10-C28)

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 26134

Lab Sample ID: LCSD 880-26197/3-A

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | 1000 | 965.6 | | mg/Kg | | 97 | 70 - 130 | 10 | 20 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 910.2 | | mg/Kg | | 91 | 70 - 130 | 11 | 20 |
| C10-C28) | | | | | | | | | |

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 122 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: 890-2330-A-1-E MS

Matrix: Solid

| Analysis Batch: 26134 | | | | | | | | | | Batch: 26197 |
|-------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | <50.0 | U | 1000 | 1124 | | mg/Kg | | 110 | 70 - 130 | |

1178

mg/Kg

1000

(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 119 | 70 - 130 |
| o-Terphenyl | 102 | 70 - 130 |

<50.0 U

MS MS

Lab Sample ID: 890-2330-A-1-F MSD

Matrix: Solid

Analysis Batch: 26134

116

Prep Type: Total/NA Prep Batch: 26197

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec <50.0 U 999 Gasoline Range Organics 1158 mg/Kg 113 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 1188 mg/Kg 117 70 - 130 20

C10-C28)

| | MSD | MSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 119 | | 70 - 130 |

SDG: 03A1987013

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

Lab Sample ID: 890-2330-A-1-F MSD

Lab Sample ID: MB 880-25450/1-A

Matrix: Solid

Analysis Batch: 26134

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26197

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 102 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: Method Blank

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25617

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/16/22 20:08 mg/Kg

Lab Sample ID: LCS 880-25450/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25617

Spike LCS LCS %Rec Added Limits Result Qualifier Analyte Unit D %Rec 250 Chloride 242.1 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-25450/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25617

LCSD LCSD **RPD** Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 244.5 98 90 - 110 20 mg/Kg

Lab Sample ID: 890-2299-A-9-B MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 25617

MS MS Sample Sample Spike %Rec **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 17.5 F1 248 238.1 F1 mg/Kg 90 - 110

Lab Sample ID: 890-2299-A-9-B MSD

Matrix: Solid

Analysis Batch: 25617

MSD MSD **RPD** Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 17.5 F1 248 253.3 mg/Kg 95 90 - 110

 Client: Ensolum
 Job ID: 890-2300-1

 Project/Site: EP USA 5
 SDG: 03A1987013

GC VOA

Analysis Batch: 25594

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2300-1 | PH09A | Total/NA | Solid | 8021B | 25635 |
| 890-2300-2 | PH09B | Total/NA | Solid | 8021B | 25635 |
| 890-2300-3 | PH10A | Total/NA | Solid | 8021B | 25635 |
| 890-2300-4 | PH10B | Total/NA | Solid | 8021B | 25635 |
| MB 880-25602/5-A | Method Blank | Total/NA | Solid | 8021B | 25602 |
| MB 880-25635/5-A | Method Blank | Total/NA | Solid | 8021B | 25635 |
| LCS 880-25635/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 25635 |
| LCSD 880-25635/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 25635 |
| 890-2298-A-1-H MS | Matrix Spike | Total/NA | Solid | 8021B | 25635 |
| 890-2298-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 25635 |

Prep Batch: 25602

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-25602/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 25635

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2300-1 | PH09A | Total/NA | Solid | 5035 | |
| 890-2300-2 | PH09B | Total/NA | Solid | 5035 | |
| 890-2300-3 | PH10A | Total/NA | Solid | 5035 | |
| 890-2300-4 | PH10B | Total/NA | Solid | 5035 | |
| MB 880-25635/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-25635/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-25635/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2298-A-1-H MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-2298-A-1-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 25748

| Lab Sample ID 890-2300-1 | Client Sample ID PH09A | Prep Type Total/NA | Matrix Solid | Method Total BTEX | Prep Batch |
|------------------------------------|------------------------|--------------------|-----------------|----------------------|------------|
| 890-2300-2 | PH09B | Total/NA | Solid | Total BTEX | |
| 890-2300-3 | PH10A | Total/NA | Solid | Total BTEX | |
| 890-2300-4 | PH10B | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 25433

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2300-1 | PH09A | Total/NA | Solid | 8015NM Prep | |
| 890-2300-2 | PH09B | Total/NA | Solid | 8015NM Prep | |
| MB 880-25433/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25433/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25433/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2298-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-2298-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 25490

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|----------|------------|
| 890-2300-1 | PH09A | Total/NA | Solid | 8015B NM | 25433 |
| 890-2300-2 | PH09B | Total/NA | Solid | 8015B NM | 25433 |
| MB 880-25433/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25433 |

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 Client: Ensolum
 Job ID: 890-2300-1

 Project/Site: EP USA 5
 SDG: 03A1987013

GC Semi VOA (Continued)

Analysis Batch: 25490 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| LCS 880-25433/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25433 |
| LCSD 880-25433/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25433 |
| 890-2298-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25433 |
| 890-2298-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25433 |

Analysis Batch: 25625

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2300-1 | PH09A | Total/NA | Solid | 8015 NM | |
| 890-2300-2 | PH09B | Total/NA | Solid | 8015 NM | |
| 890-2300-3 | PH10A | Total/NA | Solid | 8015 NM | |
| 890-2300-4 | PH10B | Total/NA | Solid | 8015 NM | |

Analysis Batch: 25772

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2300-3 | PH10A | Total/NA | Solid | 8015B NM | 25793 |
| MB 880-25793/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25793 |
| LCS 880-25793/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25793 |
| LCSD 880-25793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25793 |
| 880-14856-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25793 |
| 880-14856-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25793 |

Prep Batch: 25793

| Lab Sample ID 890-2300-3 | Client Sample ID PH10A | Prep Type Total/NA | Matrix Solid | Method 8015NM Prep | Prep Batch |
|-----------------------------|------------------------|--------------------|-----------------|-----------------------|------------|
| MB 880-25793/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25793/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-14856-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-14856-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 26134

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2300-4 | PH10B | Total/NA | Solid | 8015B NM | 26197 |
| MB 880-26197/1-A | Method Blank | Total/NA | Solid | 8015B NM | 26197 |
| LCS 880-26197/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 26197 |
| LCSD 880-26197/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 26197 |
| 890-2330-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015B NM | 26197 |
| 890-2330-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 26197 |

Prep Batch: 26197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2300-4 | PH10B | Total/NA | Solid | 8015NM Prep | |
| MB 880-26197/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-26197/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-26197/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2330-A-1-E MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-2330-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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Job ID: 890-2300-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

HPLC/IC

Leach Batch: 25450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2300-1 | PH09A | Soluble | Solid | DI Leach | |
| 890-2300-2 | PH09B | Soluble | Solid | DI Leach | |
| 890-2300-3 | PH10A | Soluble | Solid | DI Leach | |
| 890-2300-4 | PH10B | Soluble | Solid | DI Leach | |
| MB 880-25450/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25450/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25450/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2299-A-9-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-2299-A-9-B MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 25617

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2300-1 | PH09A | Soluble | Solid | 300.0 | 25450 |
| 890-2300-2 | PH09B | Soluble | Solid | 300.0 | 25450 |
| 890-2300-3 | PH10A | Soluble | Solid | 300.0 | 25450 |
| 890-2300-4 | PH10B | Soluble | Solid | 300.0 | 25450 |
| MB 880-25450/1-A | Method Blank | Soluble | Solid | 300.0 | 25450 |
| LCS 880-25450/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25450 |
| LCSD 880-25450/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25450 |
| 890-2299-A-9-B MS | Matrix Spike | Soluble | Solid | 300.0 | 25450 |
| 890-2299-A-9-B MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 25450 |

Job ID: 890-2300-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH09A Lab Sample ID: 890-2300-1 Date Collected: 05/09/22 14:15 Matrix: Solid

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 25635 | 05/16/22 13:18 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 25594 | 05/17/22 12:12 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25748 | 05/17/22 14:01 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25625 | 05/16/22 11:36 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25433 | 05/12/22 13:37 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25490 | 05/14/22 05:42 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 25450 | 05/12/22 15:26 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25617 | 05/16/22 23:58 | CH | XEN MID |

Client Sample ID: PH09B Lab Sample ID: 890-2300-2 Date Collected: 05/09/22 14:20 **Matrix: Solid**

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 25635 | 05/16/22 13:18 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 25594 | 05/17/22 12:38 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25748 | 05/17/22 14:01 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25625 | 05/16/22 11:36 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 25433 | 05/12/22 13:37 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25490 | 05/14/22 06:04 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 25450 | 05/12/22 15:26 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25617 | 05/17/22 00:07 | CH | XEN MID |

Client Sample ID: PH10A Lab Sample ID: 890-2300-3 Date Collected: 05/10/22 14:00 **Matrix: Solid**

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 25635 | 05/16/22 13:18 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 25594 | 05/17/22 13:04 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25748 | 05/17/22 14:01 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25625 | 05/16/22 11:36 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 25793 | 05/18/22 09:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25772 | 05/18/22 20:16 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 25450 | 05/12/22 15:26 | СН | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25617 | 05/17/22 00:17 | CH | XEN MID |

Client Sample ID: PH10B Lab Sample ID: 890-2300-4 Date Collected: 05/10/22 14:05 Matrix: Solid

Date Received: 05/11/22 11:24

| 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 | 25635 | 05/16/22 13:18 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | | | 25594 | 05/17/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25748 | 05/17/22 14:01 | SM | XEN MID |

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Released to Imaging: 9/19/2022 3:35:36 PM

Lab Chronicle

Client: Ensolum Job ID: 890-2300-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH10B
Date Collected: 05/10/22 14:05

Lab Sample ID: 890-2300-4

Matrix: Solid

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25625 | 05/16/22 11:36 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 26197 | 05/24/22 16:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 26134 | 05/25/22 01:53 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 25450 | 05/12/22 15:26 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25617 | 05/17/22 00:26 | СН | XEN MID |

Laboratory References:

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

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-2300-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|---------------------|------------------------------|---|--|
| Texas | NE | ELAP | T104704400-21-22 | 06-30-22 |
| The following analyte the agency does not | • | ort, but the laboratory is r | not certified by the governing authority. | This list may include analytes for which |
| and againey dood not | oner certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 0 , | | Matrix Solid | Analyte Total TPH | |

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: Ensolum Project/Site: EP USA 5

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Job ID: 890-2300-1 SDG: 03A1987013

| Protocol | Laboratory |
|----------|------------|
| SW846 | XEN MID |
| TAL SOP | XEN MID |
| SW846 | XEN MID |
| SW846 | XEN MID |

XEN MID

XEN MID

XEN MID

MCAWW

SW846

SW846

ASTM

XEN MID

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: EP USA 5

Job ID: 890-2300-1

SDG: 03A1987013

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2300-1 | PH09A | Solid | 05/09/22 14:15 | 05/11/22 11:24 | 0.5 |
| 890-2300-2 | PH09B | Solid | 05/09/22 14:20 | 05/11/22 11:24 | 1 |
| 890-2300-3 | PH10A | Solid | 05/10/22 14:00 | 05/11/22 11:24 | 0.5 |
| 890-2300-4 | PH10B | Solid | 05/10/22 14:05 | 05/11/22 11:24 | 1 |

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Chain of Custody

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Environment Testing

SAMPLE RECEIPT

myler's Name

Conner Shore

TAT starts the day received by the lab, if received by 4:30pm

Due Date: ✓ Routine

Turn Around
utine Rush

ANALYSIS REQUEST

Deliverables: EDD

ADaPT 🗆

Cool: Cool HCL: HC H₂SO₄: H₂

HNO3: HN MeOH: Me DI Water: H₂O

None: NO

Preservative Codes

amples Received Intact: (Yes)
coler Custody Seals: Yes N

No

eter ID.

-0 . D-

Correction Factor:

Temperature Reading:

Corrected Temperature

2.00

CHLORIDES (EPA: 300.0)

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na₂S₂O₃: NaSO₃ NaHSO₄: NABIS H3PO4: HP

Sample Comments NMAP1826970471 CC:1061232001

TPH (8015) BTEX (8021 Yes

Wet loe:

Yes No

Parameters

hone: City, State ZIP

281.702.2329

Email: jhernandez@ensolum.com

City, State ZIP: Address Company Name: Bill to: (if different)

Carlsbad, NM 88220 5315 Buena Vista Dr Devon Energy

Jim Raley

ddress

3122 National Parks Hwy Ensolum LLC Joseph Hernandez

Carlsbad NM, 88220

ompany Name:

roject Name

roject Number:

03A1987013 EP USA 5

Sample Custody Seals.

Yes No WILL Yes No NA

otal Containers

Sample Identification

Sampled

Time

Depth

Comp

PH10A PH 10B РН09В PH09A

5/10/2022 5/10/2022

5/9/2022 5/9/2022 Date

1420 1400

> 0.5 0.5

G G ၈ 1415

Reporting: Level II | Level III | PST/UST | TRRP | State of Project: Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐ Work Order No: www.xenco.com Work Order Comments Page ೦್ಲ Level IV 1

890-2300 Chain of Custody

ircle Method(s) and Metal(s) to be analyzed

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ce. Eurofina 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

TCLP / SPLP 6010 8RCRA

BRCRA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)

mark

1226 100

ann

Date/Time

Relinquished by: (Signature)

eceived by (Signature)

5.11.38 Date/Time

Received by: (Signature)

Total 200.7 / 6010

200.8 / 6020:

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5/25/2022 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2300-1 SDG Number: 03A1987013

Login Number: 2300 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Olivas, Nathaniel

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

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2300-1 SDG Number: 03A1987013

Login Number: 2300 **List Source: Eurofins Midland** List Creation: 05/12/22 10:47 AM List Number: 2

Creator: Rodriguez, Leticia

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

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2301-1

Laboratory Sample Delivery Group: 03A1987013

Client Project/Site: EP USA 5

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

MAMER

Authorized for release by: 5/24/2022 12:37:39 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Expert

····· Links ······

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Released to Imaging: 9/19/2022 3:35:36 PM

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

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

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Client: Ensolum
Project/Site: EP USA 5
Laboratory Job ID: 890-2301-1
SDG: 03A1987013

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Definitions/Glossary

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

| , | |
|----------------|---|
| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |

| | , , |
|-----|--|
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |

| MDA | Minimum Detectable Activity (Radiochemistry) |
|-----|---|
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| | |

| IVIDL | 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) |
|-----|--|
| טאו | Not betected at the reporting limit (or MDE or EDE if Shown) |

| NEG | Negative / Absent |
|-----|-----------------------|
| POS | Positive / Present |
| DOL | Drastical Overtitatio |

| FQL | Practical | Quantilation | |
|-----|-----------|--------------|--|
| | | | |

| PRES | Presumptive |
|------|-----------------|
| QC | Quality Control |

| RER Relative Error Ratio (Radiocher | nistry) |
|-------------------------------------|---------|
|-------------------------------------|---------|

| RL | Reporting Limit | or Requested Limit | (Radiochemistry) |
|----|-----------------|--------------------|------------------|
| | | | |

| RPD Relative Percent Difference, a measure of the relative d | ifference between two points |
|--|------------------------------|
|--|------------------------------|

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Released to Imaging: 9/19/2022 3:35:36 PM

Case Narrative

Client: Ensolum Job ID: 890-2301-1
Project/Site: EP USA 5 SDG: 03A1987013

Job ID: 890-2301-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2301-1

REVISION

The report being provided is a revision of the original report sent on 5/17/2022. The report (revision 1) is being revised due to Per client email, requesting re run on PH06B for chloride and PH08B for TPH.

Report revision history

Receipt

The samples were received on 5/11/2022 11:24 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: PH07A (890-2301-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25450 and analytical batch 880-25617 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 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25896, 880-25896 and 880-25896 and analytical batch 880-25899 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 300_ORGFM_28D: Batch preparation batch 880-25896 and 880-25896 and analytical batch 880-25899 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

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

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Eurofins Carlsbad 5/24/2022 (Rev. 1)

Matrix: Solid

Lab Sample ID: 890-2301-1

Prepared

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH05A

Date Collected: 05/10/22 09:25 Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|--|------------------------------|-----|-------------------------|------------------|------------------------------------|--|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 12:38 | 1 |
| Method: Total BTEX - Total E Analyte | Result | Qualifier | RL | MDL | | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Analyte Total BTEX | Result < 0.00398 | Qualifier U | 0.00398 | MDL | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 05/17/22 17:05 | Dil Fac |
| Analyte Total BTEX Method: 8015 NM - Diesel Ra | Result <0.00398 | Qualifier U | 0.00398 | MDL | mg/Kg | <u>D</u> | · · · | 05/17/22 17:05 | Dil Fac |
| Analyte Total BTEX | Result <0.00398 | Qualifier U s (DRO) (C | 0.00398 GC) | | mg/Kg | = | Prepared Prepared | | 1 |
| Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte | Result <0.00398 ange Organic Result <50.0 | Qualifier U S (DRO) (C Qualifier U | 0.00398 GC) RL 50.0 | | mg/Kg Unit | = | · · · | 05/17/22 17:05 Analyzed | 1 |
| Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH | Result <0.00398 Inge Organic Result <50.0 Range Organ | Qualifier U S (DRO) (C Qualifier U | 0.00398 GC) RL 50.0 | | mg/Kg Unit mg/Kg | = | · · · | 05/17/22 17:05 Analyzed | Dil Fac |
| Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel F | Result <0.00398 Inge Organic Result <50.0 Range Organ | Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier | 0.00398 GC) RL 50.0 (GC) | MDL | mg/Kg Unit mg/Kg | <u></u> <u>D</u> | Prepared | 05/17/22 17:05 Analyzed 05/13/22 09:14 | 1 |
| Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel F Analyte Gasoline Range Organics | Result <0.00398 ange Organic Result <50.0 Range Organ Result | Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier U | 0.00398 Columbia | MDL | mg/Kg Unit mg/Kg Unit | <u></u> <u>D</u> | Prepared Prepared 05/12/22 10:01 | 05/17/22 17:05 Analyzed 05/13/22 09:14 Analyzed | Dil Fac |

Method: 300.0 - Anions, Ion Chromatography - Soluble

%Recovery Qualifier

86

87

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|----------|---|----------|----------------|---------|
| Chloride | 19.3 | 5.00 | mg/Kg | | | 05/17/22 00:35 | 1 |

Limits

70 - 130

70 - 130

Client Sample ID: PH05B Date Collected: 05/10/22 09:30

Date Received: 05/11/22 11:24

Sample Depth: 1

Surrogate

o-Terphenyl

1-Chlorooctane

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 12:59 | 1 |

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Analyzed

Lab Sample ID: 890-2301-2

<u>05/12/22 10:01</u> <u>05/12/22 17:30</u>

05/12/22 10:01 05/12/22 17:30

Job ID: 890-2301-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH05B Lab Sample ID: 890-2301-2

Date Collected: 05/10/22 09:30 **Matrix: Solid** Date Received: 05/11/22 11:24

Sample Depth: 1

| Surrogate | %Recovery | Qualifier Limi | s Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|----------------|-------------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100 | 70 - | 30 05/16/22 13:30 | 05/17/22 12:59 | 1 |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00403 | U | 0.00403 | | ma/Ka | | | 05/17/22 17:05 | 1 |

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|------------------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 U | 50.0 | mg/Kg | | | 05/13/22 09:14 | 1 |

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|----------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:52 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:52 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 17:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 87 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 17:52 | 1 |
| o-Terphenyl | 87 | | 70 - 130 | 05/12/22 10:01 | 05/12/22 17:52 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result (| Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 214 | | 4.96 | | mg/Kg | | | 05/17/22 00:44 | 1 |

Lab Sample ID: 890-2301-3 **Client Sample ID: PH06A** Matrix: Solid

Date Collected: 05/10/22 13:10 Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Mothod: 9021B | Volatile | Organic (| Compounds | (CC) |
|---------------|----------|-----------|-----------|------|

| Method: 8021B - Volatile O | | | | | | | | | |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| Toluene | < 0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 13:19 | 1 |

| 4-Bromondorobenzene (Sun) | 103 | 10 - 130 | 03/10/22 13.30 03/11/22 13.19 | 1 |
|----------------------------|-----|----------|-------------------------------|---|
| 1,4-Difluorobenzene (Surr) | 100 | 70 - 130 | 05/16/22 13:30 05/17/22 13:19 | 1 |
| | | | | |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 05/17/22 17:05 | 1 |

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

| Analyte | Result Qualifie | r RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------------|------|----------|---|----------|----------------|---------|
| Total TPH | <49.8 U | 49.8 | mg/Kg | | - | 05/13/22 09:14 | 1 |

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH06A Lab Sample ID: 890-2301-3

Date Collected: 05/10/22 13:10 **Matrix: Solid** Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|----------|-----|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | mg/Kg | ı – | 05/12/22 10:01 | 05/12/22 18:14 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | J | 05/12/22 10:01 | 05/12/22 18:14 | 1 |
| OII Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | ı | 05/12/22 10:01 | 05/12/22 18:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 130 | | | 05/12/22 10:01 | 05/12/22 18:14 | 1 |
| o-Terphenyl | 88 | | 70 - 130 | | | 05/12/22 10:01 | 05/12/22 18:14 | 1 |

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared Chloride 4.99 05/17/22 01:58 50.1 mg/Kg

Client Sample ID: PH06B Lab Sample ID: 890-2301-4 Date Collected: 05/10/22 13:15 **Matrix: Solid**

Date Received: 05/11/22 11:24

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|--|--|-----|--------------------------------------|------------|--|---|------------------------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| Toluene | < 0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| Ethylbenzene | < 0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| o-Xylene | < 0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 13:40 | 1 |
| Method: Total BTEX - Total B | TEX Calcula | tion | | | | | | | |
| Analyte | | Qualifier | RL | MDI | Unit | D | Prepared | Analyzed | Dil Fac |
| Allalyto | itoouit | | | | | | | | |
| Total BTEX | <0.00402 | | 0.00402 | 2_ | mg/Kg | | | 05/17/22 17:05 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | 2 | | — <u> </u> | | | 1 |
| Total BTEX Method: 8015 NM - Diesel Rar | <0.00402 | U | 0.00402 | | | | Prepared | | 1 Dil Fac |
| · | <0.00402 | s (DRO) (Qualifier | 0.00402 GC) | | mg/Kg | <u>D</u> | | 05/17/22 17:05 | · |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH | <0.00402 nge Organic Result <50.0 | S (DRO) (G | 0.00402 GC) RL 50.0 | | mg/Kg Unit | | | 05/17/22 17:05 Analyzed | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel Rai | <0.00402 nge Organic Result <50.0 ange Organ | S (DRO) (G | 0.00402 GC) RL 50.0 | MDL | mg/Kg Unit | | | 05/17/22 17:05 Analyzed | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics | <0.00402 nge Organic Result <50.0 ange Organ | S (DRO) (O Qualifier U | 0.00402 GC) RL 50.0 | MDL | mg/Kg Unit mg/Kg | = | Prepared | 05/17/22 17:05 Analyzed 05/13/22 09:14 | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte | <0.00402 nge Organic Result <50.0 ange Organ Result | S (DRO) (O Qualifier U Qualifier U Qualifier U | 0.00402 RL 50.0 (GC) RL | MDL | mg/Kg Unit mg/Kg Unit | = | Prepared 05/12/22 10:01 | 05/17/22 17:05 Analyzed 05/13/22 09:14 Analyzed | Dil Fac |
| Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 | <0.00402 nge Organic Result <50.0 ange Organ Result <50.0 | S (DRO) (O Qualifier U Qualifier U Qualifier U | 0.00402 RL 50.0 (GC) RL 50.0 | MDL | mg/Kg Unit mg/Kg Unit mg/Kg | = | Prepared 05/12/22 10:01 | 05/17/22 17:05 Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:36 | Dil Fac Dil Fac 1 |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <0.00402 nge Organic Result <50.0 ange Organ Result <50.0 | S (DRO) (O Qualifier U Gualifier U Gualifi | 0.00402 RL 50.0 (GC) RL 50.0 | MDL | mg/Kg Unit mg/Kg Unit mg/Kg | = | Prepared Prepared 05/12/22 10:01 05/12/22 10:01 | 05/17/22 17:05 Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:36 | Dil Fac Dil Fac 1 |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <0.00402 nge Organic Result <50.0 ange Organ Result <50.0 <50.0 | S (DRO) (O Qualifier U) ics (DRO) Qualifier U) U U U | 0.00402 RL 50.0 (GC) RL 50.0 60.0 | MDL | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | = | Prepared Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/13/22 18:36 05/12/22 18:36 | Dil Fac Dil Fac 1 |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <0.00402 nge Organic Result <50.0 ange Organ Result <50.0 <50.0 <50.0 | S (DRO) (O Qualifier U) ics (DRO) Qualifier U) U U U | 0.00402 RL 50.0 (GC) RL 50.0 50.0 50.0 | MDL | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | = | Prepared 05/12/22 10:01 05/12/22 10:01 | 05/17/22 17:05 Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:36 05/12/22 18:36 | Dil Fac Dil Fac 1 1 |

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Job ID: 890-2301-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH06B Lab Sample ID: 890-2301-4

Date Collected: 05/10/22 13:15 **Matrix: Solid** Date Received: 05/11/22 11:24

Sample Depth: 1

| Method: 300.0 - Anions, Ion Chro | matogra | iphy - Solubl | e | | | | | | |
|----------------------------------|---------|---------------|------|-----|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 592 | F1 | 5.00 | | mg/Kg | | | 05/19/22 16:08 | 1 |

Client Sample ID: PH07A Lab Sample ID: 890-2301-5 Matrix: Solid

Date Collected: 05/10/22 09:40 Date Received: 05/11/22 11:24

Sample Depth: 0.5

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---|---|---------------------------------------|-----|-------------------------------|----------|---|---|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| 1,4-Difluorobenzene (Surr) | 100 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 14:00 | 1 |
| Method: Total BTEX - Total B | ΓEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 05/17/22 17:05 | 1 |
| : Method: 8015 NM - Diesel Rai | nge Organic | s (DRO) (0 | SC) | MDL | | | Prepared | | |
| - - | nge Organic | s (DRO) (O | | MDL | mg/Kg Unit mg/Kg | <u>D</u> | Prepared | 05/17/22 17:05 Analyzed 05/13/22 09:14 | |
| Method: 8015 NM - Diesel Rai Analyte Total TPH | nge Organic Result <50.0 | S (DRO) (O Qualifier | RL 50.0 | MDL | Unit | D | Prepared | Analyzed | · |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R | nge Organic Result <50.0 | s (DRO) (O Qualifier U | RL 50.0 | | Unit mg/Kg | | <u> </u> | Analyzed 05/13/22 09:14 | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte | nge Organic Result <50.0 ange Organ Result | s (DRO) (O Qualifier U | RL 50.0 | | Unit mg/Kg Unit | <u>D</u> | Prepared | Analyzed 05/13/22 09:14 Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R | nge Organic Result <50.0 | s (DRO) (O Qualifier U | RL 50.0 | | Unit mg/Kg | | <u> </u> | Analyzed 05/13/22 09:14 | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | nge Organic Result <50.0 ange Organ Result | S (DRO) (O Qualifier U ics (DRO) Qualifier | RL 50.0 | | Unit mg/Kg Unit | | Prepared 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | nge Organic Result <50.0 ange Organ Result <50.0 | s (DRO) (O Qualifier U ics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:57 05/12/22 18:57 | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 | nge Organic Result <50.0 ange Organ Result <50.0 | s (DRO) (O Qualifier U ics (DRO) Qualifier U | (GC) RL 50.0 RL 50.0 | | Unit mg/Kg Unit mg/Kg | | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:57 | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | nge Organic Result <50.0 ange Organ Result <50.0 | s (DRO) (C Qualifier U ics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:57 05/12/22 18:57 | Dil Fac |
| Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | nge Organic Result <50.0 ange Organ Result <50.0 <50.0 | s (DRO) (C Qualifier U ics (DRO) Qualifier U | GC) RL 50.0 (GC) RL 50.0 50.0 50.0 | | Unit mg/Kg Unit mg/Kg mg/Kg | | Prepared 05/12/22 10:01 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 18:57 05/12/22 18:57 | Dil Fac |

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Analyzed

05/17/22 02:35

Dil Fac

RL

4.95

MDL Unit

mg/Kg

D

Prepared

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH07B Lab Sample ID: 890-2301-6

Date Collected: 05/10/22 09:45 **Matrix: Solid** Date Received: 05/11/22 11:24

Sample Depth: 1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--|---|--|-----|------------------------------|----------|---|--|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| m-Xylene & p-Xylene | < 0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 14:20 | 1 |
| Method: Total BTEX - Total B1 | ΓEX Calcula | tion | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |
| | <0.00399 | | 0.00399 | | mg/Kg | | | 05/17/22 17:05 | 1 |
| Total BTEX Method: 8015 NM - Diesel Rar Analyte | nge Organic | | | MDL | Unit | D | Prepared | 05/17/22 17:05 Analyzed | |
| Method: 8015 NM - Diesel Rar | nge Organic | s (DRO) (O | SC) | MDL | | <u>D</u> | Prepared | | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH | nge Organic Result <49.9 | s (DRO) (O Qualifier U | RL 49.9 | MDL | Unit | <u>D</u> | Prepared | Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte | nge Organic Result <49.9 | s (DRO) (O Qualifier U | RL 49.9 | MDL | Unit mg/Kg | <u>D</u> | Prepared Prepared | Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra | nge Organic Result <49.9 | s (DRO) (O Qualifier U | RL 49.9 (GC) | | Unit mg/Kg | _ = | <u> </u> | Analyzed 05/13/22 09:14 | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | nge Organic Result <49.9 ange Organ Result | S (DRO) (O Qualifier U | RL 49.9 (GC) | | Unit mg/Kg | _ = | Prepared | Analyzed 05/13/22 09:14 Analyzed 05/12/22 19:19 | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 | nge Organic Result <49.9 ange Organ Result <49.9 | s (DRO) (O Qualifier U ics (DRO) Qualifier U | (GC) RL 49.9 (RL 49.9 | | Unit mg/Kg Unit mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 19:19 | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | nge Organic Result <49.9 ange Organ Result <49.9 | s (DRO) (C Qualifier U ics (DRO) Qualifier U | GC) RL 49.9 (GC) RL 49.9 49.9 | | Unit mg/Kg Unit mg/Kg mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 19:19 05/12/22 19:19 | Dil Fac |
| Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | nge Organic Result <49.9 ange Organ Result <49.9 <49.9 | s (DRO) (C Qualifier U ics (DRO) Qualifier U | GC) RL 49.9 (GC) RL 49.9 49.9 49.9 | | Unit mg/Kg Unit mg/Kg mg/Kg | _ = | Prepared 05/12/22 10:01 05/12/22 10:01 05/12/22 10:01 | Analyzed 05/13/22 09:14 Analyzed 05/12/22 19:19 05/12/22 19:19 05/12/22 19:19 | Dil Fac |

Client Sample ID: PH08A Lab Sample ID: 890-2301-7 Date Collected: 05/10/22 10:50 **Matrix: Solid**

RL

5.05

MDL Unit

mg/Kg

D

Prepared

Analyzed

05/17/22 02:44

Dil Fac

Result Qualifier

46.7

Date Received: 05/11/22 11:24

Sample Depth: 0.5

Analyte

Chloride

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 14:41 | 1 |

Date Received: 05/11/22 11:24

Job ID: 890-2301-1

Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH08A Lab Sample ID: 890-2301-7 Date Collected: 05/10/22 10:50

Matrix: Solid

Sample Depth: 0.5

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|-------------------------------|---------|
| 1.4-Difluorobenzene (Surr) | 102 | | 70 - 130 | 05/16/22 13:30 05/17/22 14:41 | |

Method: Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | _ | | 05/17/22 17:05 | 1 |

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

| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|------------------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 U | 50.0 | mg/Kg | | | 05/13/22 09:14 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|----------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 19:41 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 19:41 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 05/12/22 10:01 | 05/12/22 19:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualif | fier Limits | Prepared | Analyzed | Dil Fac |
|----------------|------------------|-------------|----------------|----------------|---------|
| 1-Chlorooctane | 79 | 70 - 130 | 05/12/22 10:01 | 05/12/22 19:41 | 1 |
| o-Terphenyl | 79 | 70 - 130 | 05/12/22 10:01 | 05/12/22 19:41 | 1 |

Method: 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Q | Qualifier RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|----------|--------------|-----|-------|---|----------|----------------|---------|
| Chloride | 19.2 | 4.98 | | mg/Kg | | | 05/17/22 02:54 | 1 |

Lab Sample ID: 890-2301-8 **Client Sample ID: PH08B** Matrix: Solid

Date Collected: 05/10/22 10:55 Date Received: 05/11/22 11:24

Sample Depth: 1

| Mothod: 9021B | Volatile | Organic | Compounds | (CC) |
|---------------|----------|---------|-----------|------|

| Wethou: 6021B - Volatile O | rganic Compo | unas (GC) | | | | | | | |
|-----------------------------|--------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | 05/16/22 13:30 | 05/17/22 15:01 | 1 |

| lothod: | Total | DTEV | Total | DTEV | Calculation | n |
|---------|-------|------|-------|------|-------------|---|

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|----------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 05/17/22 17:05 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 05/13/22 09:14 | 1 |

Client Sample Results

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH08B Lab Sample ID: 890-2301-8 Date Collected: 05/10/22 10:55

122

Matrix: Solid

05/18/22 09:02 05/18/22 19:55

Date Received: 05/11/22 11:24 Sample Depth: 1

o-Terphenyl

| Method: 8015B NM - Diesel R | : 8015B NM - Diesel Range Organics (DRO) (GC) | | | | | | | | | | |
|---|---|-----------|----------|-----|-------|---|----------------|----------------|---------|--|--|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 19:55 | 1 | | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 19:55 | 1 | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 19:55 | 1 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | | |
| 1-Chlorooctane | 107 | | 70 - 130 | | | | 05/18/22 09:02 | 05/18/22 19:55 | 1 | | |

| Method: 300.0 - Anions, Ion C | hromatography - Solub | le | | | | | |
|-------------------------------|-----------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 23.6 | 4.95 | ma/Ka | | | 05/17/22 03:21 | |

70 - 130

Surrogate Summary

Client: Ensolum Job ID: 890-2301-1
Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 | |
|--------------------|------------------------|----------|---------|--|
| Lab Sample ID | Client Sample ID | (70-130) | 70-130) | |
| 890-2301-1 | PH05A | 101 | 100 | |
| 890-2301-1 MS | PH05A | 104 | 104 | |
| 890-2301-1 MSD | PH05A | 103 | 102 | |
| 890-2301-2 | PH05B | 102 | 100 | |
| 890-2301-3 | PH06A | 105 | 100 | |
| 890-2301-4 | PH06B | 106 | 99 | |
| 890-2301-5 | PH07A | 106 | 100 | |
| 890-2301-6 | PH07B | 106 | 99 | |
| 890-2301-7 | PH08A | 110 | 102 | |
| 890-2301-8 | PH08B | 108 | 102 | |
| LCS 880-25636/1-A | Lab Control Sample | 98 | 96 | |
| LCSD 880-25636/2-A | Lab Control Sample Dup | 102 | 102 | |
| MB 880-25636/5-A | Method Blank | 97 | 98 | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

| | | | Per | cent Surrogate Recovery | (Acceptance Limi |
|---------------------|------------------------|----------|----------|-------------------------|------------------|
| | | 1CO1 | OTPH1 | | |
| ₋ab Sample ID | Client Sample ID | (70-130) | (70-130) | | |
| 380-14703-A-1-C MS | Matrix Spike | 75 | 71 | | |
| 380-14703-A-1-D MSD | Matrix Spike Duplicate | 74 | 71 | | |
| 380-14856-A-1-F MS | Matrix Spike | 110 | 103 | | |
| 880-14856-A-1-G MSD | Matrix Spike Duplicate | 97 | 94 | | |
| 390-2301-1 | PH05A | 86 | 87 | | |
| 390-2301-2 | PH05B | 87 | 87 | | |
| 390-2301-3 | PH06A | 89 | 88 | | |
| 90-2301-4 | PH06B | 105 | 105 | | |
| 390-2301-5 | PH07A | 67 S1- | 66 S1- | | |
| 390-2301-6 | PH07B | 95 | 93 | | |
| 90-2301-7 | PH08A | 79 | 79 | | |
| 90-2301-8 | PH08B | 107 | 122 | | |
| CS 880-25396/2-A | Lab Control Sample | 104 | 103 | | |
| CS 880-25793/2-A | Lab Control Sample | 102 | 109 | | |
| CSD 880-25396/3-A | Lab Control Sample Dup | 107 | 106 | | |
| CSD 880-25793/3-A | Lab Control Sample Dup | 104 | 104 | | |
| MB 880-25396/1-A | Method Blank | 99 | 107 | | |
| MB 880-25793/1-A | Method Blank | 125 | 146 S1+ | | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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13

QC Sample Results

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25636/5-A

Matrix: Solid

Analysis Batch: 25672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25636

| | MB | MR | | | | | | | |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| | MD | MD | | | | | | | |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 | 05/16/22 13:30 | 05/17/22 11:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 98 | 70 - 130 | 05/16/22 13:30 | 05/17/22 11:48 | 1 |

Lab Sample ID: LCS 880-25636/1-A

Matrix: Solid

Analysis Batch: 25672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 25636

| _ | Spike | LCS I | LCS | | %Rec | |
|---------------------|-------|----------|----------------|--------|----------|--|
| Analyte | Added | Result (| Qualifier Unit | D %Rec | Limits | |
| Benzene | 0.100 | 0.09524 | mg/Kg | 95 | 70 - 130 | |
| Toluene | 0.100 | 0.09684 | mg/Kg | 97 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1120 | mg/Kg | 112 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2019 | mg/Kg | 101 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09544 | mg/Kg | 95 | 70 - 130 | |
| | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 98 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | 70 - 130 |

Lab Sample ID: LCSD 880-25636/2-A

Matrix: Solid

Analysis Batch: 25672

| Client S | Sample | ID: Lal | Contro | I Sample Dup |
|----------|--------|---------|---------------|--------------|
| | | | | T-1-1/81 A |

Prep Type: Total/NA Prep Batch: 25636

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.100 | 0.1015 | | mg/Kg | | 101 | 70 - 130 | 6 | 35 |
| Toluene | 0.100 | 0.09620 | | mg/Kg | | 96 | 70 - 130 | 1 | 35 |
| Ethylbenzene | 0.100 | 0.1102 | | mg/Kg | | 110 | 70 - 130 | 2 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1975 | | mg/Kg | | 99 | 70 - 130 | 2 | 35 |
| o-Xylene | 0.100 | 0.09391 | | mg/Kg | | 94 | 70 - 130 | 2 | 35 |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 102 | | 70 - 130 |

Lab Sample ID: 890-2301-1 MS

Matrix: Solid

Analysis Batch: 25672

Client Sample ID: PH05A **Prep Type: Total/NA**

Prep Batch: 25636

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.0996 | 0.09146 | | mg/Kg | | 92 | 70 - 130 | |
| Toluene | <0.00199 | U | 0.0996 | 0.08637 | | mg/Kg | | 86 | 70 - 130 | |

1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Ensolum Job ID: 890-2301-1 SDG: 03A1987013 Project/Site: EP USA 5

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

104

Lab Sample ID: 890-2301-1 MS Client Sample ID: PH05A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25672** Prep Batch: 25636 MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U 0.0996 0.09756 mg/Kg 98 70 - 130 m-Xylene & p-Xylene <0.00398 U 0.199 0.1748 mg/Kg 88 70 - 130 <0.00199 U 0.0996 0.08344 83 o-Xylene mg/Kg 70 _ 130 MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 104

70 - 130

Lab Sample ID: 890-2301-1 MSD Client Sample ID: PH05A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 25636 **Analysis Batch: 25672** Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Analyte <0.00199 U 0.0998 0.08543 86 70 - 130 7 35 Benzene mg/Kg

Toluene 0.0998 0.08179 81 70 - 130 35 <0.00199 U mg/Kg 5 Ethylbenzene <0.00199 U 0.0998 0.09262 mg/Kg 93 70 - 130 5 35 m-Xylene & p-Xylene <0.00398 U 0.200 0.1656 83 70 - 130 5 35 mq/Kq 0.0998 0.07884 79 35 o-Xylene <0.00199 U mg/Kg 70 - 130

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 103 1,4-Difluorobenzene (Surr) 102 70 - 130

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

Lab Sample ID: MB 880-25396/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25380** Prep Batch: 25396

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac <50.0 U 50.0 05/12/22 10:01 05/12/22 11:00 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 05/12/22 10:01 05/12/22 11:00 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/12/22 10:01 05/12/22 11:00

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1-Chlorooctane 70 - 130 05/12/22 10:01 05/12/22 11:00 99 70 - 130 05/12/22 10:01 05/12/22 11:00 o-Terphenyl 107

Lab Sample ID: LCS 880-25396/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25380** Prep Batch: 25396

| | Spike | LCS | LCS | | | | %Rec | |
|---|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1140 | | mg/Kg | | 114 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1052 | | mg/Kg | | 105 | 70 - 130 | |

Client: Ensolum Job ID: 890-2301-1 SDG: 03A1987013 Project/Site: EP USA 5

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

LCS LCS

Lab Sample ID: LCS 880-25396/2-A

Matrix: Solid

Analysis Batch: 25380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25396

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 104 70 - 130 o-Terphenyl 103 70 - 130

Lab Sample ID: LCSD 880-25396/3-A

Matrix: Solid

Analysis Batch: 25380

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25396

LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1194 mg/Kg 119 70 - 130 5 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1136 mg/Kg 114 70 - 130 8 20 C10-C28)

LCSD LCSD

Lab Sample ID: 880-14703-A-1-C MS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 107 70 - 130 70 - 130 o-Terphenyl 106

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25396

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec <50.0 U Gasoline Range Organics 1000 935.7 mg/Kg 94 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over <50.0 U 779.4 mg/Kg 78 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 25380

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 75 o-Terphenyl 71 70 - 130

Lab Sample ID: 880-14703-A-1-D MSD

Gasoline Range Organics

Diesel Range Organics (Over

Matrix: Solid

Analysis Batch: 25380

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

76

70 - 130

Prep Batch: 25396

2

20

Spike MSD MSD %Rec **RPD** Added Result Qualifier Limits **RPD** Limit Unit %Rec 998 902.2 90 70 - 130 20 mg/Kg

mg/Kg

C10-C28)

(GRO)-C6-C10

Analyte

MSD MSD

Sample Sample

<50.0 U

<50.0 U

Result Qualifier

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 74 70 - 130 71 o-Terphenyl 70 - 130

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Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

| | MB | MB | | | | | | | |
|---|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 11:29 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 11:29 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 05/18/22 09:02 | 05/18/22 11:29 | 1 |
| | MB | MB | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 125 | | 70 - 130 | 05/18/22 09:02 | 05/18/22 11:29 | 1 |
| o-Terphenyl | 146 | S1+ | 70 - 130 | 05/18/22 09:02 | 05/18/22 11:29 | 1 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 25793

Matrix: Solid Analysis Batch: 25772

Lab Sample ID: LCS 880-25793/2-A

Lab Sample ID: LCSD 880-25793/3-A

| | Spike | LCS | LCS | | | | %Rec | |
|---|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 1132 | | mg/Kg | | 113 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | 1000 | 861.2 | | mg/Kg | | 86 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 102 | | 70 - 130 |
| o-Terphenyl | 109 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

82

70 - 130

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 25772**

1000

Prep Batch: 25793 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limit Analyte Unit Limits **RPD** D %Rec Gasoline Range Organics 1000 1105 mg/Kg 111 70 - 130 20 (GRO)-C6-C10

823.0

mg/Kg

C10-C28)

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 104 | 70 - 130 |
| o-Terphenyl | 104 | 70 - 130 |

Lab Sample ID: 880-14856-A-1-F MS **Client Sample ID: Matrix Spike Prep Type: Total/NA**

Matrix: Solid

Diesel Range Organics (Over

| Analysis Batch: 25772 | | | | | | | | | Prep E | satch: 25793 |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|--------------|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | 98.5 | F1 | 1000 | 1616 | F1 | mg/Kg | | 152 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 1000 | 1204 | | mg/Kg | | 120 | 70 - 130 | |

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Prep Batch: 25793

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: 880-14856-A-1-F MS Client Sample ID: Matrix Spike Prep Type: Total/NA

70 - 130

Matrix: Solid Analysis Batch: 25772

o-Terphenyl

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130

103

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

| Analysis Batch: 25772 | | | | | | | | | Prep E | Batch: 2 | 25793 |
|---|--------|-----------|-------|--------|-----------|-------|---|------|----------|----------|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 98.5 | F1 | 999 | 1379 | | mg/Kg | | 128 | 70 - 130 | 16 | 20 |
| Diesel Range Organics (Over | <50.0 | U | 999 | 1072 | | mg/Kg | | 107 | 70 - 130 | 12 | 20 |

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 97 70 - 130 70 - 130 o-Terphenyl 94

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25450/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25617

MB MB

| Analyte | Result | Qualifier | RL | MDL (| Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | | mg/Kg | | | 05/16/22 20:08 | 1 |

Lab Sample ID: LCS 880-25450/2-A

Matrix: Solid

Analysis Batch: 25617

| | Spike | LCS | LCS | | | | %Rec | |
|----------|---------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 242.1 | | mg/Kg | | 97 | 90 - 110 | |

Lab Sample ID: LCSD 880-25450/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25617

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 250 | 244.5 | | mg/Kg | | 98 | 90 - 110 | 1 | 20 |

Lab Sample ID: 890-2299-A-9-B MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25617

Released to Imaging: 9/19/2022 3:35:36 PM

| B 1 0 10 B 1 1 1 B 1 0 10 B 1 1 1 1 B 1 1 1 1 |
|--|
| Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits |

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Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 300.0 - Anions, Ion Chromatography (Continued)

MR MR

Lab Sample ID: 890-2299-A-9-B MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25617

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 17.5 | F1 | 248 | 253.3 | | mg/Kg | | 95 | 90 - 110 | 6 | 20 |

Lab Sample ID: MB 880-25453/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25654

| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|----------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 05/17/22 01:31 | 1 |

Lab Sample ID: LCS 880-25453/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25654

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit %Rec Chloride 250 243.4 mg/Kg

Lab Sample ID: LCSD 880-25453/3-A **Client Sample ID: Lab Control Sample Dup Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25654

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 250 | 244.3 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-2301-3 MS Client Sample ID: PH06A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25654

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 50.1 | | 250 | 299 1 | | ma/Ka | | 100 | 90 - 110 | |

Lab Sample ID: 890-2301-3 MSD Client Sample ID: PH06A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25654

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 50.1 | | 250 | 297.4 | | ma/Ka | | 99 | 90 - 110 | 1 | 20 |

Lab Sample ID: MB 880-25896/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25899

MB MB Result Qualifier Analyte RL MDL Unit Prepared Dil Fac Analyzed Chloride <5.00 U 5.00 05/19/22 15:40 mg/Kg

Lab Sample ID: LCS 880-25896/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25899

| | Spike | LCS | LCS | | | | %Rec | |
|----------|---------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 239.2 | | mg/Kg | | 96 | 90 - 110 | |

QC Sample Results

 Client: Ensolum
 Job ID: 890-2301-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-25896/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Matrix: Solid Analysis Batch: 25899

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 241.0 mg/Kg 96 90 - 110 20

Lab Sample ID: 890-2301-4 MS Client Sample ID: PH06B

Matrix: Solid Prep Type: Soluble

Analysis Batch: 25899

Sample Sample Spike MS MS %Rec **Analyte Result Qualifier** Added Result Qualifier Unit D %Rec Limits Chloride 592 F1 250 103 90 - 110 849.2 mg/Kg

Lab Sample ID: 890-2301-4 MSD Client Sample ID: PH06B

Matrix: Solid

Analysis Batch: 25800

Analysis Batch: 25899

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec Chloride 592 F1 250 807.0 F1 86 90 - 110 20 mg/Kg

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Job ID: 890-2301-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

GC VOA

Prep Batch: 25636

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | 5035 | |
| 890-2301-2 | PH05B | Total/NA | Solid | 5035 | |
| 890-2301-3 | PH06A | Total/NA | Solid | 5035 | |
| 890-2301-4 | PH06B | Total/NA | Solid | 5035 | |
| 890-2301-5 | PH07A | Total/NA | Solid | 5035 | |
| 890-2301-6 | PH07B | Total/NA | Solid | 5035 | |
| 890-2301-7 | PH08A | Total/NA | Solid | 5035 | |
| 890-2301-8 | PH08B | Total/NA | Solid | 5035 | |
| MB 880-25636/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-25636/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-25636/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-2301-1 MS | PH05A | Total/NA | Solid | 5035 | |
| 890-2301-1 MSD | PH05A | Total/NA | Solid | 5035 | |

Analysis Batch: 25672

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | 8021B | 25636 |
| 890-2301-2 | PH05B | Total/NA | Solid | 8021B | 25636 |
| 890-2301-3 | PH06A | Total/NA | Solid | 8021B | 25636 |
| 890-2301-4 | PH06B | Total/NA | Solid | 8021B | 25636 |
| 890-2301-5 | PH07A | Total/NA | Solid | 8021B | 25636 |
| 890-2301-6 | PH07B | Total/NA | Solid | 8021B | 25636 |
| 890-2301-7 | PH08A | Total/NA | Solid | 8021B | 25636 |
| 890-2301-8 | PH08B | Total/NA | Solid | 8021B | 25636 |
| MB 880-25636/5-A | Method Blank | Total/NA | Solid | 8021B | 25636 |
| LCS 880-25636/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 25636 |
| LCSD 880-25636/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 25636 |
| 890-2301-1 MS | PH05A | Total/NA | Solid | 8021B | 25636 |
| 890-2301-1 MSD | PH05A | Total/NA | Solid | 8021B | 25636 |

Analysis Batch: 25762

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | Total BTEX | |
| 890-2301-2 | PH05B | Total/NA | Solid | Total BTEX | |
| 890-2301-3 | PH06A | Total/NA | Solid | Total BTEX | |
| 890-2301-4 | PH06B | Total/NA | Solid | Total BTEX | |
| 890-2301-5 | PH07A | Total/NA | Solid | Total BTEX | |
| 890-2301-6 | PH07B | Total/NA | Solid | Total BTEX | |
| 890-2301-7 | PH08A | Total/NA | Solid | Total BTEX | |
| 890-2301-8 | PH08B | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 25380

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | 8015B NM | 25396 |
| 890-2301-2 | PH05B | Total/NA | Solid | 8015B NM | 25396 |
| 890-2301-3 | PH06A | Total/NA | Solid | 8015B NM | 25396 |
| 890-2301-4 | PH06B | Total/NA | Solid | 8015B NM | 25396 |
| 890-2301-5 | PH07A | Total/NA | Solid | 8015B NM | 25396 |
| 890-2301-6 | PH07B | Total/NA | Solid | 8015B NM | 25396 |

Job ID: 890-2301-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

GC Semi VOA (Continued)

Analysis Batch: 25380 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2301-7 | PH08A | Total/NA | Solid | 8015B NM | 25396 |
| MB 880-25396/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25396 |
| LCS 880-25396/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25396 |
| LCSD 880-25396/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25396 |
| 880-14703-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25396 |
| 880-14703-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25396 |

Prep Batch: 25396

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | 8015NM Prep | - |
| 890-2301-2 | PH05B | Total/NA | Solid | 8015NM Prep | |
| 890-2301-3 | PH06A | Total/NA | Solid | 8015NM Prep | |
| 890-2301-4 | PH06B | Total/NA | Solid | 8015NM Prep | |
| 890-2301-5 | PH07A | Total/NA | Solid | 8015NM Prep | |
| 890-2301-6 | PH07B | Total/NA | Solid | 8015NM Prep | |
| 890-2301-7 | PH08A | Total/NA | Solid | 8015NM Prep | |
| MB 880-25396/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25396/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25396/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-14703-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-14703-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 25503

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2301-1 | PH05A | Total/NA | Solid | 8015 NM | |
| 890-2301-2 | PH05B | Total/NA | Solid | 8015 NM | |
| 890-2301-3 | PH06A | Total/NA | Solid | 8015 NM | |
| 890-2301-4 | PH06B | Total/NA | Solid | 8015 NM | |
| 890-2301-5 | PH07A | Total/NA | Solid | 8015 NM | |
| 890-2301-6 | PH07B | Total/NA | Solid | 8015 NM | |
| 890-2301-7 | PH08A | Total/NA | Solid | 8015 NM | |
| 890-2301-8 | PH08B | Total/NA | Solid | 8015 NM | |

Analysis Batch: 25772

| Lab Sample ID 890-2301-8 | Client Sample ID PH08B | Prep Type Total/NA | Matrix Solid | Method 8015B NM | Prep Batch 25793 |
|------------------------------------|------------------------|--------------------|--------------|--------------------|------------------|
| MB 880-25793/1-A | Method Blank | Total/NA | Solid | 8015B NM | 25793 |
| LCS 880-25793/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 25793 |
| LCSD 880-25793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 25793 |
| 880-14856-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015B NM | 25793 |
| 880-14856-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 25793 |

Prep Batch: 25793

Released to Imaging: 9/19/2022 3:35:36 PM

| Lab Sample ID 890-2301-8 | Client Sample ID PH08B | Prep Type Total/NA | Matrix Solid | Method Prep Ba | atch |
|------------------------------------|------------------------|--------------------|--------------|----------------|------|
| MB 880-25793/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-25793/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-25793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-14856-A-1-F MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-14856-A-1-G MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Job ID: 890-2301-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

HPLC/IC

Leach Batch: 25450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2301-1 | PH05A | Soluble | Solid | DI Leach | |
| 890-2301-2 | PH05B | Soluble | Solid | DI Leach | |
| MB 880-25450/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25450/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25450/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2299-A-9-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-2299-A-9-B MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Leach Batch: 25453

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2301-3 | PH06A | Soluble | Solid | DI Leach | |
| 890-2301-5 | PH07A | Soluble | Solid | DI Leach | |
| 890-2301-6 | PH07B | Soluble | Solid | DI Leach | |
| 890-2301-7 | PH08A | Soluble | Solid | DI Leach | |
| 890-2301-8 | PH08B | Soluble | Solid | DI Leach | |
| MB 880-25453/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25453/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25453/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2301-3 MS | PH06A | Soluble | Solid | DI Leach | |
| 890-2301-3 MSD | PH06A | Soluble | Solid | DI Leach | |

Analysis Batch: 25617

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2301-1 | PH05A | Soluble | Solid | 300.0 | 25450 |
| 890-2301-2 | PH05B | Soluble | Solid | 300.0 | 25450 |
| MB 880-25450/1-A | Method Blank | Soluble | Solid | 300.0 | 25450 |
| LCS 880-25450/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25450 |
| LCSD 880-25450/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25450 |
| 890-2299-A-9-B MS | Matrix Spike | Soluble | Solid | 300.0 | 25450 |
| 890-2299-A-9-B MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 25450 |

Analysis Batch: 25654

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2301-3 | PH06A | Soluble | Solid | 300.0 | 25453 |
| 890-2301-5 | PH07A | Soluble | Solid | 300.0 | 25453 |
| 890-2301-6 | PH07B | Soluble | Solid | 300.0 | 25453 |
| 890-2301-7 | PH08A | Soluble | Solid | 300.0 | 25453 |
| 890-2301-8 | PH08B | Soluble | Solid | 300.0 | 25453 |
| MB 880-25453/1-A | Method Blank | Soluble | Solid | 300.0 | 25453 |
| LCS 880-25453/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25453 |
| LCSD 880-25453/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25453 |
| 890-2301-3 MS | PH06A | Soluble | Solid | 300.0 | 25453 |
| 890-2301-3 MSD | PH06A | Soluble | Solid | 300.0 | 25453 |

Leach Batch: 25896

| Lab Sample ID 890-2301-4 | Client Sample ID PH06B | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|-----------------------------|------------------------|-------------------|--------------|-----------------|------------|
| MB 880-25896/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-25896/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-25896/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2301-4 MS | PH06B | Soluble | Solid | DI Leach | |

 Client: Ensolum
 Job ID: 890-2301-1

 Project/Site: EP USA 5
 SDG: 03A1987013

HPLC/IC (Continued)

Leach Batch: 25896 (Continued)

| La | | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----|--------------|------------------|-----------|--------|----------|------------|
| 89 | 0-2301-4 MSD | PH06B | Soluble | Solid | DI Leach | |

Analysis Batch: 25899

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2301-4 | PH06B | Soluble | Solid | 300.0 | 25896 |
| MB 880-25896/1-A | Method Blank | Soluble | Solid | 300.0 | 25896 |
| LCS 880-25896/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 25896 |
| LCSD 880-25896/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 25896 |
| 890-2301-4 MS | PH06B | Soluble | Solid | 300.0 | 25896 |
| 890-2301-4 MSD | PH06B | Soluble | Solid | 300.0 | 25896 |

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13

Client: Ensolum

Project/Site: EP USA 5

Date Collected: 05/10/22 09:25 Date Received: 05/11/22 11:24

Batch

Batch

| Initial | Final | Batch | Prepared | | | |
|---------|--------|--------|----------------|---------|---------|---|
| Amount | Amount | Number | or Analyzed | Analyst | Lab | 5 |
| 5.03 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID | |
| 5 mL | 5 mL | 25672 | 05/17/22 12:38 | MR | XEN MID | |
| | | 25762 | 05/17/22 17:05 | SM | XEN MID | |

Method Factor **Prep Type** Type Run Total/NA 5035 Prep Total/NA 8021B Analysis 1 Total/NA Analysis Total BTEX Total/NA 8015 NM 25503 XEN MID Analysis 1 05/13/22 09:14 SM Total/NA 25396 XEN MID Prep 8015NM Prep 10.00 g 10 mL 05/12/22 10:01 DM Total/NA 8015B NM 25380 05/12/22 17:30 SM XEN MID Analysis Soluble 25450 05/12/22 15:26 CH XEN MID Leach DI Leach 5 g 50 mL 300.0 25617 05/17/22 00:35 CH Soluble XEN MID Analysis 1

Dil

Client Sample ID: PH05B Lab Sample ID: 890-2301-2 Date Collected: 05/10/22 09:30 **Matrix: Solid**

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 12:59 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MI |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MII |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 17:52 | SM | XEN MI |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 25450 | 05/12/22 15:26 | CH | XEN MII |
| Soluble | Analysis | 300.0 | | 1 | | | 25617 | 05/17/22 00:44 | CH | XEN MII |

Lab Sample ID: 890-2301-3 Client Sample ID: PH06A Date Collected: 05/10/22 13:10 **Matrix: Solid**

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 13:19 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 18:14 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 25453 | 05/12/22 15:31 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25654 | 05/17/22 01:58 | CH | XEN MID |

Client Sample ID: PH06B Lab Sample ID: 890-2301-4 Date Collected: 05/10/22 13:15 Matrix: Solid

Date Received: 05/11/22 11:24

Date Received: 05/11/22 11:24

| 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 | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 13:40 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |

Eurofins Carlsbad

Released to Imaging: 9/19/2022 3:35:36 PM

SDG: 03A1987013

Client Sample ID: PH06B Date Collected: 05/10/22 13:15

Client: Ensolum

Project/Site: EP USA 5

Lab Sample ID: 890-2301-4

Matrix: Solid

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 18:36 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 25896 | 05/19/22 12:19 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25899 | 05/19/22 16:08 | CH | XEN MID |

Client Sample ID: PH07A Lab Sample ID: 890-2301-5 Date Collected: 05/10/22 09:40 **Matrix: Solid**

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|-------------------|-------------------------|-----|--------|---------|--------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 14:00 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.00 g | 10 mL | 25396 25380 | 05/12/22 10:01 05/12/22 18:57 | DM SM | XEN MID XEN MID |
| Soluble Soluble | Leach Analysis | DI Leach 300.0 | | 1 | 5.05 g | 50 mL | 25453 25654 | 05/12/22 15:31 05/17/22 02:35 | | XEN MID XEN MID |

Client Sample ID: PH07B Lab Sample ID: 890-2301-6 Date Collected: 05/10/22 09:45 **Matrix: Solid**

Date Received: 05/11/22 11:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 14:20 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 25396 | 05/12/22 10:01 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25380 | 05/12/22 19:19 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 25453 | 05/12/22 15:31 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25654 | 05/17/22 02:44 | CH | XEN MID |

Client Sample ID: PH08A Lab Sample ID: 890-2301-7 Date Collected: 05/10/22 10:50 Matrix: Solid

Date Received: 05/11/22 11:24

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|---------|--------|----------------|----------------------------------|----------|--------------------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 14:41 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.01 g | 10 mL | 25396 25380 | 05/12/22 10:01 05/12/22 19:41 | DM SM | XEN MID XEN MID |

Lab Chronicle

 Client: Ensolum
 Job ID: 890-2301-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Client Sample ID: PH08A

Date Collected: 05/10/22 10:50 Date Received: 05/11/22 11:24 Lab Sample ID: 890-2301-7

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 25453 | 05/12/22 15:31 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25654 | 05/17/22 02:54 | CH | XEN MID |

Client Sample ID: PH08B Lab Sample ID: 890-2301-8

Date Collected: 05/10/22 10:55 Date Received: 05/11/22 11:24 Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 25636 | 05/16/22 13:30 | MR | XEN MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 25672 | 05/17/22 15:01 | MR | XEN MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 25762 | 05/17/22 17:05 | SM | XEN MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 25503 | 05/13/22 09:14 | SM | XEN MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 25793 | 05/18/22 09:02 | DM | XEN MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 25772 | 05/18/22 19:55 | SM | XEN MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 25453 | 05/12/22 15:30 | CH | XEN MID |
| Soluble | Analysis | 300.0 | | 1 | | | 25654 | 05/17/22 03:21 | CH | XEN MID |

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2301-1 Project/Site: EP USA 5 SDG: 03A1987013

Laboratory: Eurofins Midland

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

| Authority | Pro | ogram | Identification Number | Expiration Date |
|--|-----------------------------|------------------------------|---|--------------------------------------|
| Texas | NE | ELAP | T104704400-21-22 | 06-30-22 |
| The following analyte: | s are included in this repo | ort, but the laboratory is r | not certified by the governing authority. | This list may include analytes for w |
| the agency does not | • | , | g aanen, | This list may morade analytes for W |
| the agency does not of Analysis Method | • | Matrix | Analyte | The not may morade analytee for w |
| 0 , | offer certification. | • | , , , | |

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Method Summary

Client: Ensolum Project/Site: EP USA 5 Job ID: 890-2301-1 SDG: 03A1987013

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

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Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: EP USA 5

Job ID: 890-2301-1

SDG: 03A1987013

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2301-1 | PH05A | Solid | 05/10/22 09:25 | 05/11/22 11:24 | 0.5 |
| 890-2301-2 | PH05B | Solid | 05/10/22 09:30 | 05/11/22 11:24 | 1 |
| 890-2301-3 | PH06A | Solid | 05/10/22 13:10 | 05/11/22 11:24 | 0.5 |
| 890-2301-4 | PH06B | Solid | 05/10/22 13:15 | 05/11/22 11:24 | 1 |
| 890-2301-5 | PH07A | Solid | 05/10/22 09:40 | 05/11/22 11:24 | 0.5 |
| 890-2301-6 | PH07B | Solid | 05/10/22 09:45 | 05/11/22 11:24 | 1 |
| 890-2301-7 | PH08A | Solid | 05/10/22 10:50 | 05/11/22 11:24 | 0.5 |
| 890-2301-8 | PH08B | Solid | 05/10/22 10:55 | 05/11/22 11:24 | 1 |

Page.

Level IV

DI Water: H₂O

extsed Date 08/25/2020 Rev 2020

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

S1./22@1100 Date/Time

5-11-30 1124

red by the client if such losses are due to circumstances beyond the control to, but not analyzed. These terms will be enforced unless previously negotist

for the cost of samples and shall not assume any responsibility for any losses or expenses ... 30 will be applied to each project and a charge of \$5 for each sample submitted to Eurofin

Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinguishment of

200.8 / 6020:

Total 200.7 / 6010

Received by: (Signature) risero

Relinquished by: (Signature)

mon

BRCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn

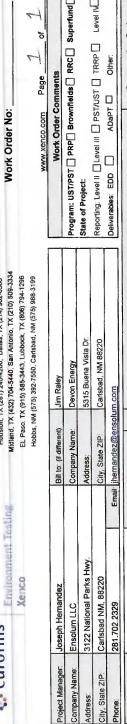
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Hg: 1631 / 245.1 / 7470 / 7471

Chain of Custody

eurofins.

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300



| Company Name: Ensolum LLC | Ensolum LLC | Company Name: | Devon Energy | Program: UST/PST PRP Brown |
|---------------------------|-------------------------------------|--------------------------------|----------------------|-------------------------------------|
| Address | 3122 National Parks Hwy. | Address: | 5315 Buena Vista Dr. | State of Project: |
| City, State ZIP. | City, State ZIP: Carlsbad NM, 88220 | City, State ZIP: | Carlsbad, NM 88220 | Reporting: Level II Level III PST |
| Phone: | 281.702.2329 | Email: jhernandez@ensolum.com | solum.com | Deliverables: EDD ADaPT |
| Project Name: | EP USA 5 | Tum Around | ANALYSIS REQUEST | REQUEST |
| Project Number: | 03A1987013 | ☐ Routine ☐ Rush | Pres. Code | - - - - |
| Project Location: | | Due Date: | | |
| Sampler's Name. | Conner Shore | TAT starts the day received by | | |
| #O4 | | the lab, if received by 4:30pm | 8.0 | |

| City, State ZIP. | Carlsbad NM, 8 | , 88220 | | | City, State ZIP | 4179 | 4 | Cansbad, NM 88220 | NAM | 2220 | } | |] | 1 |
|--------------------------|----------------|--------------|----------------------------|--------------------------------|------------------------------|-------------------------|---------------|-------------------|-------------------|------|---------------------------|----------------|---|--------------------|
| Phone: 2 | 281.702.2329 | | | Email | Email: jhemandez@ensolum.com | ez@er | solum | com | | | Deliverables: EDD | ADaPT [| Other | |
| Project Name: | 9 | EP USA 5 | | Tur | Turn Around | | | | | | ANALYSIS REQUEST | | Preserva | Preservative Codes |
| Project Number: | 03A1 | 03A1987013 | 3 | ☑ Routine | □ Rush | | Pres. Code | | | | | - 1 | None: NO | DI Water: H2 |
| Project Location: | | | | Due Date: | | | | | | | | 0 | Cool. Cool | MeOH. Me |
| Sampler's Name. | Conn | Conner Shore | Je. | TAT starts the day received by | ne day receiv | ved by | | | | Ξ | | 1 | HCL HC | HNO3: HN |
| PO#: | | | | the lab, if received by 4:30pm | ceived by 4: | 30pm | S.J | _ | | | | - | H ₂ SO ₄ : H ₂ | NaOH: Na |
| SAMPLE RECEIPT | Temp | Blank | oN (PV) | Wet Ice | ON (SAY) | No | eten | (0 | - | | | <u>+</u> | H ₃ PO ₄ : HP | |
| Samples Received Intact. | (3) | No | Thermometer ID: | ter ID: | mom | 8 | ** | 300 | | | | <u> </u> | NaHSO4: NABIS | S |
| Cooler Custody Seals | Yes | No SE | Correction Factor. | Factor. | 6.07 | 0 | gd | :44 | | 88 | 890-2301 Chain of Custody | | Na ₂ S ₂ O ₃ : NaSO ₃ | 23 |
| Sample Custody Seals: | Yes | 1 | No NIA Temperature Reading | re Reading. | 5.8 | | |) S | | | | Z | Zn Acetate+NaOH: Zn | OH: Zn |
| Total Containers: | | | Corrected | Corrected Temperature | 5.6 | a | | IDE | | _ | | | NaOH+Ascorbic Acid: SAPC | c Acid: SAPC |
| Sample Identification | fication | Matrix | Date Sampled | Time | Depth | Grab/ # of Comp Cont | # of Cont | | 18) H9T) X3T8 | | | | Sample | Sample Comments |
| PH05A | | s | 5/10/2022 | 2 925 | .5.0 | ပ | - | × | × | × | | | NMAP1 | NMAP1826970471 |
| PH05B | 8 | s | 5/10/2022 | 2 930 | 1. | တ | - | × | × | × | | | | |
| PH06A | | S | 5/10/2022 | 1310 | 0.5 | ပ | - | × | ^ × | × | | | CC:10 | CC:1061232001 |
| B90Hd | æ | s | 5/10/2022 | 1315 | 1, | O | - | × | × | × | | | | |
| PH07A | - | S | 5/10/2022 | 2 940 | 0.5 | Ø | - | × | × | × | | | | |
| PH078 | | s | 5/10/2022 | 2 945 | + | ပ | - | × | × | × | | | | |
| PH08A | 4 | s | 5/10/2022 | 1050 | 0.5 | Ø | - | × | × | × | | | | |
| PH08B | 8 | s | 5/10/2022 | 2 1055 | + | တ | - | × | × | × | | | | |
| | | | | | | | | + | | | | | | |
| 25 | | | | | | | | _ | - | | | | | |
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2301-1

SDG Number: 03A1987013

List Source: Eurofins Carlsbad

Login Number: 2301 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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

Eurofins Carlsbad

Page 31 of 32

5/24/2022 (Rev. 1)

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2301-1

SDG Number: 03A1987013

List Source: Eurofins Midland
List Number: 2
List Creation: 05/12/22 10:47 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2760-1

Laboratory Sample Delivery Group: 03A1987013

Client Project/Site: EP USA 5

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Joseph Hernandez

MRAMER

Authorized for release by: 8/19/2022 5:58:17 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/19/2022 3:35:36 PM

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

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Client: Ensolum
Project/Site: EP USA 5
Laboratory Job ID: 890-2760-1
SDG: 03A1987013

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Definitions/Glossary

Job ID: 890-2760-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

Qualifiers

| GC | VOA |
|----|-----|
| | |

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| *1 | LCS/LCSD RPD exceeds control limits. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| S1- | Surrogate recovery exceeds control limits, low biased. |
| U | Indicates the analyte was analyzed for but not detected. |

HPLC/IC

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI 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 Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Job ID: 890-2760-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2760-1

Receipt

The samples were received on 8/16/2022 12:24 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

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32434 and analytical batch 880-32438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-32394 and analytical batch 880-32384 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-2760-4), (890-2760-A-4-E MS) and (890-2760-A-4-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-32395 and analytical batch 880-32386 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32301 and analytical batch 880-32431 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Lab Sample ID: 890-2760-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Client Sample ID: PH03

Date Collected: 08/16/22 09:30 Date Received: 08/16/22 12:24

Sample Depth: 5'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| Toluene | 0.00416 | | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 17:30 | 1 |
| - Method: Total BTEX - Total BTEX | (Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | 0.00416 | | 0.00400 | | mg/Kg | | | 08/19/22 11:07 | 1 |
| | | 0) (00) | | | | | | | |
| Method: 8015 NM - Diesel Range | • | | RL | MDI | 1114 | D | Danasa | A | D!! E |
| Analyte | | Qualifier | | MDL | Unit | | Prepared | Analyzed | Dil Fac |
| Total TPH - | <49.9 | U | 49.9 | | mg/Kg | | | 08/18/22 16:47 | 1 |
| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 11:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 11:45 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 11:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | | 08/18/22 09:11 | 08/18/22 11:45 | 1 |
| o-Terphenyl | 96 | | 70 - 130 | | | | 08/18/22 09:11 | 08/18/22 11:45 | 1 |
| - Method: 300.0 - Anions, Ion Chro | omatography - | Soluble | | | | | | | |
| | | | | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: PH03

Date Collected: 08/16/22 09:35 Date Received: 08/16/22 12:24

Sample Depth: 7'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |

Eurofins Carlsbad

Lab Sample ID: 890-2760-2

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Jimo Gariobad

Matrix: Solid

Client: Ensolum Job ID: 890-2760-1 SDG: 03A1987013 Project/Site: EP USA 5

Client Sample ID: PH03 Lab Sample ID: 890-2760-2

Date Collected: 08/16/22 09:35 Matrix: Solid Date Received: 08/16/22 12:24

Sample Depth: 7'

| Method: 8021B - Volatile Organ | ic Compounds | (GC) (Conti | nued) | | | | | | |
|--------------------------------|---------------|-------------|----------|-----|-------|---|----------------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 17:51 | 1 |
| Method: Total BTEX - Total BTE | X Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | П | 0.00400 | | ma/Ka | | | 08/19/22 11:07 | 1 |

| Method: 8015 NM - Diesel Range O | rganics (DRO) (GC) | | | | | | |
|----------------------------------|--------------------|------|----------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 U | 49.9 | mg/Kg | | | 08/18/22 16:47 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 12:51 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U *1 | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 12:51 | 1 |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 12:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chloroctane | 105 | | 70 130 | | | | 08/18/22 00:11 | 08/18/22 12:51 | |

| Method: 300.0 - Anions, Ion Chromatograp | ohy - Soluble | | | | |
|--|---------------|----------|----------------|----------------|---|
| o-Terphenyl | 91 | 70 - 130 | 08/18/22 09:11 | 08/18/22 12:51 | 1 |
| 1-Chioroociane | 105 | 10 - 130 | 00/10/22 09.11 | 00/10/22 12.31 | 1 |

Result Qualifier MDL Unit Analyte Prepared Analyzed 1510 25.0 mg/Kg 08/18/22 14:04 Chloride **Client Sample ID: PH03** Lab Sample ID: 890-2760-3

Date Collected: 08/16/22 09:40 Date Received: 08/16/22 12:24

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| 1,4-Difluorobenzene (Surr) | 99 | | 70 - 130 | | | | 08/18/22 14:24 | 08/18/22 18:12 | 1 |
| Method: Total BTEX - Total BT | EX Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 08/19/22 11:07 | 1 |

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Analyzed

08/18/22 16:47

Matrix: Solid

RL

50.0

MDL Unit

mg/Kg

Prepared

Result Qualifier

<50.0 U

Dil Fac

Released to Imaging: 9/19/2022 3:35:36 PM

Analyte

Total TPH

Matrix: Solid

Lab Sample ID: 890-2760-3

Lab Sample ID: 890-2760-4

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2760-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH03

Date Collected: 08/16/22 09:40 Date Received: 08/16/22 12:24

Sample Depth: 9'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 13:13 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U *1 | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 13:13 | 1 |
| C10-C28) | | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 13:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 106 | | 70 - 130 | | | | 08/18/22 09:11 | 08/18/22 13:13 | 1 |
| o-Terphenyl | 94 | | 70 - 130 | | | | 08/18/22 09:11 | 08/18/22 13:13 | 1 |
| Method: 300.0 - Anions, Ion Chro | matography - | Soluble | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | 4.98 | | mg/Kg | | | 08/18/22 14:12 | |

Client Sample ID: PH01

Date Collected: 08/16/22 09:45

Date Received: 08/16/22 12:24

Sample Depth: 5'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 150 | S1+ | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 19:45 | 1 |
| Method: Total BTEX - Total BTEX | Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 08/19/22 11:07 | 1 |
| Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 08/18/22 16:47 | 1 |
| Method: 8015B NM - Diesel Rang | je Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 11:45 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 11:45 | 1 |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 11:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 66 | S1- | 70 - 130 | | | | 08/18/22 09:14 | 08/18/22 11:45 | 1 |
| | | | | | | | | | |

Job ID: 890-2760-1 SDG: 03A1987013

Client: Ensolum
Project/Site: EP USA 5

Lab Sample ID: 890-2760-4

Date Collected: 08/16/22 09:45 Date Received: 08/16/22 12:24

Client Sample ID: PH01

Matrix: Solid

Sample Depth: 5'

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 628 | | 50.4 | | mg/Kg | | | 08/18/22 14:20 | 10 |

Client Sample ID: PH01 Lab Sample ID: 890-2760-5

Date Collected: 08/16/22 09:50 Date Received: 08/16/22 12:24 Matrix: Solid

Sample Depth: 7'

Analyte

Total BTEX

1-Chlorooctane

o-Terphenyl

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 155 | S1+ | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 84 | | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 20:11 | 1 |

Result Qualifier

<0.00401 U

71

72

| _ | | | | | 5 5 | | | | |
|-------------------------------------|----------------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| _ Method: 8015 NM - Diesel Range | Organics (DR | O) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 08/18/22 16:47 | 1 |
| - Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 12:51 | 1 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 12:51 | 1 |
| C10-C28) | | | | | | | | | |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 12:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

0.00401

MDL Unit

mg/Kg

Prepared

08/18/22 09:14

08/18/22 09:14

Analyzed

08/19/22 11:07

08/18/22 12:51

08/18/22 12:51

| Method: 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 505 | | 49.7 | | mg/Kg | | | 08/18/22 14:28 | 10 |

70 - 130

70 - 130

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3

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6

7

9

11

13

Matrix: Solid

Lab Sample ID: 890-2760-6

Client Sample Results

Client: Ensolum Job ID: 890-2760-1 Project/Site: EP USA 5 SDG: 03A1987013

Client Sample ID: PH01

Date Collected: 08/16/22 09:55 Date Received: 08/16/22 12:24

Sample Depth: 9'

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|----------------------|------------|------|-------|-----|----------------|-------------------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 158 | S1+ | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | | | | 08/17/22 19:25 | 08/18/22 20:37 | 1 |
| - Method: Total BTEX - Total BTE) | (Calculation | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: 8015 NM - Diesel Range | • | O) (GC) Qualifier | RL | MDI | Unit | D | Propared | Analyzod | Dil Fac |
| Analyte | | | | MDL | | — Б | Prepared | Analyzed | |
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 08/18/22 16:47 | 1 |
| Method: 8015B NM - Diesel Rang | ge Organics (D | RO) (GC) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 13:13 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 13:13 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:14 | 08/18/22 13:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 130 | | | | 08/18/22 09:14 | 08/18/22 13:13 | 1 |
| o-Terphenyl | 86 | | 70 - 130 | | | | 08/18/22 09:14 | 08/18/22 13:13 | 1 |
| Method: 300.0 - Anions, Ion Chro | | | | | | | | | |
| | | O 1:C: | D. | MADI | 1114 | | Danage and al | A II | |
| Analyte | Result 549 | Qualifier | RL 49.5 | MDL | mg/Kg | D | Prepared | Analyzed 08/18/22 14:51 | Dil Fac |

Surrogate Summary

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 | Percent Surrogate Recovery (Acceptance Limits) |
|----------------------|------------------------|----------|----------|--|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-18031-A-21-H MS | Matrix Spike | 97 | 95 | |
| 880-18031-A-21-I MSD | Matrix Spike Duplicate | 106 | 94 | |
| 880-18071-A-1-E MS | Matrix Spike | 123 | 95 | |
| 880-18071-A-1-F MSD | Matrix Spike Duplicate | 134 S1+ | 106 | |
| 890-2760-1 | PH03 | 104 | 96 | |
| 890-2760-2 | PH03 | 109 | 88 | |
| 890-2760-3 | PH03 | 109 | 99 | |
| 390-2760-4 | PH01 | 150 S1+ | 94 | |
| 890-2760-5 | PH01 | 155 S1+ | 84 | |
| 890-2760-6 | PH01 | 158 S1+ | 91 | |
| LCS 880-32381/1-A | Lab Control Sample | 129 | 102 | |
| _CS 880-32434/1-A | Lab Control Sample | 100 | 101 | |
| LCSD 880-32381/2-A | Lab Control Sample Dup | 129 | 93 | |
| _CSD 880-32434/2-A | Lab Control Sample Dup | 98 | 97 | |
| MB 880-32366/5-A | Method Blank | 92 | 76 | |
| MB 880-32381/5-A | Method Blank | 100 | 74 | |
| MB 880-32434/5-A | Method Blank | 97 | 90 | |

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) |
|--------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-2760-1 | PH03 | 108 | 96 | |
| 890-2760-1 MS | PH03 | 100 | 91 | |
| 890-2760-1 MSD | PH03 | 103 | 78 | |
| 890-2760-2 | PH03 | 105 | 91 | |
| 890-2760-3 | PH03 | 106 | 94 | |
| 890-2760-4 | PH01 | 66 S1- | 66 S1- | |
| 890-2760-4 MS | PH01 | 69 S1- | 61 S1- | |
| 890-2760-4 MSD | PH01 | 78 | 69 S1- | |
| 890-2760-5 | PH01 | 71 | 72 | |
| 890-2760-6 | PH01 | 85 | 86 | |
| LCS 880-32394/2-A | Lab Control Sample | 93 | 84 | |
| LCS 880-32395/2-A | Lab Control Sample | 93 | 91 | |
| LCSD 880-32394/3-A | Lab Control Sample Dup | 104 | 106 | |
| LCSD 880-32395/3-A | Lab Control Sample Dup | 95 | 92 | |
| MB 880-32394/1-A | Method Blank | 98 | 90 | |
| MB 880-32395/1-A | Method Blank | 75 | 77 | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2760-1 Project/Site: EP USA 5 SDG: 03A1987013

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32366/5-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32366

| | IVID | IVID | | | | | | | |
|---------------------|-----------|-----------|---------|-----|-------|---|----------------|----------------|--------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| Xylenes, Total | < 0.00400 | U | 0.00400 | | mg/Kg | | 08/17/22 14:25 | 08/17/22 17:59 | |
| | | | | | | | | | |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|---|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | _ | 08/17/22 14:25 | 08/17/22 17:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 76 | | 70 - 130 | | 08/17/22 14:25 | 08/17/22 17:59 | 1 |

Lab Sample ID: MB 880-32381/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32381

Analysis Batch: 32367

MR MR

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.000400 | U | 0.000400 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| Toluene | <0.000400 | U | 0.000400 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| Ethylbenzene | <0.000400 | U | 0.000400 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| m-Xylene & p-Xylene | <0.000800 | U | 0.000800 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| o-Xylene | <0.000400 | U | 0.000400 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| Xylenes, Total | <0.000800 | U | 0.000800 | | mg/Kg | | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | 08/17/22 16:59 | 08/18/22 11:54 | 1 |
| 1,4-Difluorobenzene (Surr) | 74 | | 70 - 130 | 08/17/22 16:59 | 08/18/22 11:54 | 1 |

Lab Sample ID: LCS 880-32381/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 32367

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA Prep Batch: 32381

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1007 mg/Kg 100 70 - 130 Toluene 0.100 0.08765 mg/Kg 87 70 - 130 Ethylbenzene 0.100 0.08882 mg/Kg 89 70 - 130 0.200 m-Xylene & p-Xylene 0.1785 mg/Kg 89 70 - 130

0.09164

mg/Kg

0.100

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 129 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 102 | 70 - 130 |

Lab Sample ID: LCSD 880-32381/2-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32381

RPD

Spike LCSD LCSD %Rec Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.0998 0.09785 mg/Kg 98 70 - 130 3

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QC Sample Results

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

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

Lab Sample ID: LCSD 880-32381/2-A

Matrix: Solid

Analysis Batch: 32367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32381

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.0998 0.09126 70 - 130 35 mg/Kg 91 4 Ethylbenzene 0.0998 0.09415 mg/Kg 94 70 - 130 6 35 m-Xylene & p-Xylene 0.200 0.1875 94 70 - 130 35 mg/Kg 5 o-Xylene 0.0998 0.09375 mg/Kg 94 70 - 130 2 35

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 129
 70 - 130

 1,4-Diffluorobenzene (Surr)
 93
 70 - 130

Lab Sample ID: 880-18071-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 32367 Prep Batch: 32381

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits U F1 0.05275 F1 Benzene <0.00200 0.100 mg/Kg 53 70 - 130 Toluene <0.00200 U F1 0.100 0.03643 F1 36 70 - 130 mg/Kg Ethylbenzene 0.100 70 - 130 < 0.00200 UF1 0.04400 F1 mg/Kg 44 0.200 0.07989 F1 40 70 - 130 m-Xylene & p-Xylene <0.00400 UF1 mg/Kg 70 - 130 o-Xylene <0.00200 UF1 0.100 0.04820 F1 mg/Kg 47

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 123
 70 - 130

 1,4-Difluorobenzene (Surr)
 95
 70 - 130

Lab Sample ID: 880-18071-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 32367 Prep Batch: 32381

| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00200 | U F1 | 0.100 | 0.03874 | F1 | mg/Kg | | 39 | 70 - 130 | 31 | 35 |
| Toluene | <0.00200 | U F1 | 0.100 | 0.02822 | F1 | mg/Kg | | 28 | 70 - 130 | 25 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.100 | 0.03554 | F1 | mg/Kg | | 35 | 70 - 130 | 21 | 35 |
| m-Xylene & p-Xylene | <0.00400 | U F1 | 0.200 | 0.06456 | F1 | mg/Kg | | 32 | 70 - 130 | 21 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.100 | 0.04084 | F1 | mg/Kg | | 40 | 70 - 130 | 17 | 35 |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 134
 S1+
 70 - 130

 1,4-Difluorobenzene (Surr)
 106
 70 - 130

Lab Sample ID: MB 880-32434/5-A Client Sample ID: Method Blank

Matrix: Solid
Analysis Batch: 32438

MB MB

Prep Type: Total/NA
Prep Batch: 32434

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |

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Client: Ensolum Project/Site: EP USA 5

Job ID: 890-2760-1 SDG: 03A1987013

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

Lab Sample ID: MB 880-32434/5-A **Matrix: Solid**

Analysis Batch: 32438

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 32434

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| o-Xylene | 0.003405 | | 0.00200 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| | | | | | | | | | |

MR MR

MB MB

| | 11.5 11.5 | | | | |
|-----------------------------|---------------|----------------|----------------|----------------|---------|
| Surrogate | %Recovery Qua | alifier Limits | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | 70 - 130 | 08/18/22 14:24 | 08/18/22 16:48 | 1 |
| 1,4-Difluorobenzene (Surr) | 90 | 70 - 130 | 08/18/22 14:24 | 08/18/22 16:48 | 1 |

Lab Sample ID: LCS 880-32434/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 32438

Prep Type: Total/NA Prep Batch: 32434

| | Spike | LCS | LCS | | | %Rec | |
|---------------------|-------|--------|-----------|-------|--------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D %Rec | Limits | |
| Benzene | 0.100 | 0.1126 | | mg/Kg | 112 | 70 - 130 | |
| Toluene | 0.100 | 0.1142 | | mg/Kg | 114 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.1005 | | mg/Kg | 100 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.2059 | | mg/Kg | 103 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1168 | | mg/Kg | 117 | 70 - 130 | |
| | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 100 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 101 | 70 - 130 |

Lab Sample ID: LCSD 880-32434/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32438

Prep Batch: 32434 LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 35 Benzene 0.1095 mg/Kg 110 70 - 130 3 Toluene 0.100 0.1133 mg/Kg 113 70 - 130 35 Ethylbenzene 0.100 0.09994 mg/Kg 100 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2016 mg/Kg 101 70 - 130 35 o-Xylene 0.100 0.1122 mg/Kg 112 70 - 130

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|---------------------|
| 4-Bromofluorobenzene (Surr) | 98 | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 97 | 70 ₋ 130 |

Lab Sample ID: 880-18031-A-21-H MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 32438

Prep Type: Total/NA Prep Batch: 32434

Prep Type: Total/NA

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00200 | U | 0.100 | 0.08698 | | mg/Kg | | 87 | 70 - 130 | |
| Toluene | <0.00200 | U | 0.100 | 0.08317 | | mg/Kg | | 83 | 70 - 130 | |
| Ethylbenzene | <0.00200 | U F1 | 0.100 | 0.06524 | F1 | mg/Kg | | 65 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00400 | U F1 | 0.200 | 0.1311 | F1 | mg/Kg | | 65 | 70 - 130 | |
| o-Xylene | <0.00200 | U F1 | 0.100 | 0.06822 | F1 | mg/Kg | | 68 | 70 - 130 | |

Client: Ensolum Job ID: 890-2760-1 Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: 880-18031-A-21-H MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 32438

Prep Type: Total/NA

Prep Batch: 32434

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

Lab Sample ID: 880-18031-A-21-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 32438

Prep Type: Total/NA

Prep Batch: 32434

| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00200 | U | 0.100 | 0.08576 | | mg/Kg | | 86 | 70 - 130 | 1 | 35 |
| Toluene | <0.00200 | U | 0.100 | 0.07816 | | mg/Kg | | 78 | 70 - 130 | 6 | 35 |
| Ethylbenzene | <0.00200 | U F1 | 0.100 | 0.06167 | F1 | mg/Kg | | 62 | 70 - 130 | 6 | 35 |
| m-Xylene & p-Xylene | <0.00400 | U F1 | 0.200 | 0.1208 | F1 | mg/Kg | | 60 | 70 - 130 | 8 | 35 |
| o-Xylene | <0.00200 | U F1 | 0.100 | 0.06130 | F1 | mg/Kg | | 61 | 70 - 130 | 11 | 35 |
| | | | | | | | | | | | |

MSD MSD

MS MS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 106 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

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

Lab Sample ID: MB 880-32394/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 32394

Analysis Batch: 32384

MB MB

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 10:40 | 1 |
| (GRO)-C6-C10 Diesel Range Organics (Over | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 10:40 | 1 |
| C10-C28) Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 08/18/22 09:11 | 08/18/22 10:40 | 1 |

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| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98 | | 70 - 130 | 08/18/22 09:11 | 08/18/22 10:40 | 1 |
| o-Terphenyl | 90 | | 70 - 130 | 08/18/22 09:11 | 08/18/22 10:40 | 1 |

Lab Sample ID: LCS 880-32394/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Analysis Batch: 32384

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Prep Type: Total/NA Prep Batch: 32394

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 1108 111 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 813.9 mg/Kg 81 70 - 130

C10-C28)

| | LUS | LCS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 84 | | 70 - 130 |

Lab Sample ID: LCSD 880-32394/3-A

Matrix: Solid

C10-C28)

QC Sample Results

Job ID: 890-2760-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 32384 Prep Batch: 32394 Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics 1000 1015 mg/Kg 101 70 - 130 9 20

(GRO)-C6-C10 Diesel Range Organics (Over 1000 1025 *1 70 - 130mg/Kg 102 23 20 C10-C28)

LCSD LCSD Qualifier Surrogate %Recovery

Limits 1-Chlorooctane 70 - 130 104 o-Terphenyl 106 70 - 130

Lab Sample ID: 890-2760-1 MS **Client Sample ID: PH03**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 32384** Prep Batch: 32394

MS MS %Rec Sample Sample Spike

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 999 Gasoline Range Organics <49.9 U 1270 mg/Kg 125 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *1 999 1207 mg/Kg 121 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits

1-Chlorooctane 100 70 - 130 91 70 - 130 o-Terphenyl

Lab Sample ID: 890-2760-1 MSD **Client Sample ID: PH03 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32384 Prep Batch: 32394

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 998 109 Gasoline Range Organics 1117 70 - 130 13 20 mg/Kg (GRO)-C6-C10 998 1069 107 12 Diesel Range Organics (Over <49 9 U *1 mg/Kg 70 - 130 20

MSD MSD

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 103 70 - 130 70 - 130 78 o-Terphenyl

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Lab Sample ID: MB 880-32395/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32386 Prep Batch: 32395

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 08/18/22 09:14 08/18/22 10:40 mg/Kg (GRO)-C6-C10 08/18/22 09:14 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/18/22 10:40 C10-C28) 08/18/22 09:14 OII Range Organics (Over C28-C36) <50.0 U 50.0 08/18/22 10:40 mg/Kg

QC Sample Results

Job ID: 890-2760-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

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

Lab Sample ID: MB 880-32395/1-A

Matrix: Solid

Analysis Batch: 32386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32395

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|-------------|--------------------|---------|
| 1-Chlorooctane | 75 | | 70 - 130 | 08/18/22 09 | :14 08/18/22 10:40 | 1 |
| o-Terphenyl | 77 | | 70 - 130 | 08/18/22 09 | :14 08/18/22 10:40 | 1 |

Lab Sample ID: LCS 880-32395/2-A **Client Sample ID: Lab Control Sample**

Analysis Batch: 32386

Matrix: Solid Prep Type: Total/NA Prep Batch: 32395

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 962.0 96 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 835.3 mg/Kg 84 70 - 130C10-C28)

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 91 | | 70 - 130 |

Lab Sample ID: LCSD 880-32395/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32386

Prep Type: Total/NA Prep Batch: 32395 Spike LCSD LCSD

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 875.0 mg/Kg 88 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 851.5 mg/Kg 85 70 - 130 2 20 C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 95

70 - 130 o-Terphenyl 92 70 - 130

Lab Sample ID: 890-2760-4 MS Client Sample ID: PH01

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 32386 Prep Batch: 32395

Sample Sample MS MS %Rec Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 999 885.1 86 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 659.6 F1 mg/Kg 70 - 130

C10-C28)

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 69 | S1- | 70 - 130 |
| o-Terphenyl | 61 | S1- | 70 - 130 |

70

70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

12

QC Sample Results

Job ID: 890-2760-1 Client: Ensolum Project/Site: EP USA 5 SDG: 03A1987013

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

<49.9 U F1

Lab Sample ID: 890-2760-4 MSD **Client Sample ID: PH01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32386 Prep Batch: 32395 Sample Sample Spike MSD MSD RPD Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U 998 916.0 mg/Kg 89 70 - 130 3 20 (GRO)-C6-C10

745.1

mg/Kg

998

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 78 o-Terphenyl 69 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32301/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32431

Diesel Range Organics (Over

MB MB MDL Unit Result Qualifier Analyte RL Prepared Analyzed Dil Fac Chloride <5.00 5.00 08/18/22 13:17 mg/Kg

Lab Sample ID: LCS 880-32301/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32431

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 236.4 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-32301/3-A

Matrix: Solid

Analysis Batch: 32431

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 236.6 95 90 - 110 mg/Kg 0

Lab Sample ID: 890-2760-1 MS Client Sample ID: PH03 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 32431

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits 852 F1 Chloride 248 1055 F1 82 90 - 110 mg/Kg

Lab Sample ID: 890-2760-1 MSD

Matrix: Solid

Analysis Batch: 32431

| Allalysis Datcil. 32431 | | | | | | | | | | | |
|-------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 852 | F1 | 248 | 1056 | F1 | mg/Kg | | 82 | 90 - 110 | 0 | 20 |

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Client Sample ID: PH03

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-2760-1 Project/Site: EP USA 5 SDG: 03A1987013

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| Pre | n B | ato | h· | 22 | 326 |
|-----|-----|-----|----|-----|-----|
| rie | υD | all | и. | 32, | 300 |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-32366/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 32367

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2760-4 | PH01 | Total/NA | Solid | 8021B | 32382 |
| 890-2760-5 | PH01 | Total/NA | Solid | 8021B | 32382 |
| 890-2760-6 | PH01 | Total/NA | Solid | 8021B | 32382 |
| MB 880-32366/5-A | Method Blank | Total/NA | Solid | 8021B | 32366 |
| MB 880-32381/5-A | Method Blank | Total/NA | Solid | 8021B | 32381 |
| LCS 880-32381/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 32381 |
| LCSD 880-32381/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 32381 |
| 880-18071-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 32381 |
| 880-18071-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 32381 |

Prep Batch: 32381

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 880-32381/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-32381/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-32381/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-18071-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-18071-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 32382

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-2760-4 | PH01 | Total/NA | Solid | 5035 | |
| 890-2760-5 | PH01 | Total/NA | Solid | 5035 | |
| 890-2760-6 | PH01 | Total/NA | Solid | 5035 | |

Prep Batch: 32434

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | 5035 | |
| 890-2760-2 | PH03 | Total/NA | Solid | 5035 | |
| 890-2760-3 | PH03 | Total/NA | Solid | 5035 | |
| MB 880-32434/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-32434/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-32434/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-18031-A-21-H MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-18031-A-21-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 32438

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| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | 8021B | 32434 |
| 890-2760-2 | PH03 | Total/NA | Solid | 8021B | 32434 |
| 890-2760-3 | PH03 | Total/NA | Solid | 8021B | 32434 |
| MB 880-32434/5-A | Method Blank | Total/NA | Solid | 8021B | 32434 |
| LCS 880-32434/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 32434 |
| LCSD 880-32434/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 32434 |
| 880-18031-A-21-H MS | Matrix Spike | Total/NA | Solid | 8021B | 32434 |
| 880-18031-A-21-I MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 32434 |

QC Association Summary

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

GC VOA

Analysis Batch: 32503

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-2760-2 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-2760-3 | PH03 | Total/NA | Solid | Total BTEX | |
| 890-2760-4 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-2760-5 | PH01 | Total/NA | Solid | Total BTEX | |
| 890-2760-6 | PH01 | Total/NA | Solid | Total BTEX | |

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Analysis Batch: 32384

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | 8015B NM | 32394 |
| 890-2760-2 | PH03 | Total/NA | Solid | 8015B NM | 32394 |
| 890-2760-3 | PH03 | Total/NA | Solid | 8015B NM | 32394 |
| MB 880-32394/1-A | Method Blank | Total/NA | Solid | 8015B NM | 32394 |
| LCS 880-32394/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 32394 |
| LCSD 880-32394/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 32394 |
| 890-2760-1 MS | PH03 | Total/NA | Solid | 8015B NM | 32394 |
| 890-2760-1 MSD | PH03 | Total/NA | Solid | 8015B NM | 32394 |

Analysis Batch: 32386

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2760-4 | PH01 | Total/NA | Solid | 8015B NM | 32395 |
| 890-2760-5 | PH01 | Total/NA | Solid | 8015B NM | 32395 |
| 890-2760-6 | PH01 | Total/NA | Solid | 8015B NM | 32395 |
| MB 880-32395/1-A | Method Blank | Total/NA | Solid | 8015B NM | 32395 |
| LCS 880-32395/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 32395 |
| LCSD 880-32395/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 32395 |
| 890-2760-4 MS | PH01 | Total/NA | Solid | 8015B NM | 32395 |
| 890-2760-4 MSD | PH01 | Total/NA | Solid | 8015B NM | 32395 |

Prep Batch: 32394

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-2760-2 | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-2760-3 | PH03 | Total/NA | Solid | 8015NM Prep | |
| MB 880-32394/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-32394/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-32394/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2760-1 MS | PH03 | Total/NA | Solid | 8015NM Prep | |
| 890-2760-1 MSD | PH03 | Total/NA | Solid | 8015NM Prep | |

Prep Batch: 32395

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| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-2760-4 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-2760-5 | PH01 | Total/NA | Solid | 8015NM Prep | |
| 890-2760-6 | PH01 | Total/NA | Solid | 8015NM Prep | |
| MB 880-32395/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-32395/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-32395/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-2760-4 MS | PH01 | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

GC Semi VOA (Continued)

Prep Batch: 32395 (Continued)

| Lab Sar | mple ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------|----------|------------------|-----------|--------|-------------|------------|
| 890-276 | 60-4 MSD | PH01 | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 32449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2760-1 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-2760-2 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-2760-3 | PH03 | Total/NA | Solid | 8015 NM | |
| 890-2760-4 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-2760-5 | PH01 | Total/NA | Solid | 8015 NM | |
| 890-2760-6 | PH01 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 32301

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2760-1 | PH03 | Soluble | Solid | DI Leach | |
| 890-2760-2 | PH03 | Soluble | Solid | DI Leach | |
| 890-2760-3 | PH03 | Soluble | Solid | DI Leach | |
| 890-2760-4 | PH01 | Soluble | Solid | DI Leach | |
| 890-2760-5 | PH01 | Soluble | Solid | DI Leach | |
| 890-2760-6 | PH01 | Soluble | Solid | DI Leach | |
| MB 880-32301/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-32301/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-32301/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-2760-1 MS | PH03 | Soluble | Solid | DI Leach | |
| 890-2760-1 MSD | PH03 | Soluble | Solid | DI Leach | |

Analysis Batch: 32431

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-2760-1 | PH03 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-2 | PH03 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-3 | PH03 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-4 | PH01 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-5 | PH01 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-6 | PH01 | Soluble | Solid | 300.0 | 32301 |
| MB 880-32301/1-A | Method Blank | Soluble | Solid | 300.0 | 32301 |
| LCS 880-32301/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 32301 |
| LCSD 880-32301/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 32301 |
| 890-2760-1 MS | PH03 | Soluble | Solid | 300.0 | 32301 |
| 890-2760-1 MSD | PH03 | Soluble | Solid | 300.0 | 32301 |

Eurofins Carlsbad

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Job ID: 890-2760-1 SDG: 03A1987013

Project/Site: EP USA 5

Client Sample ID: PH03

Client: Ensolum

Lab Sample ID: 890-2760-1

Matrix: Solid

Date Collected: 08/16/22 09:30 Date Received: 08/16/22 12:24

| | Batch | Batch | | Dil | Initial Final | Batch | Prepared | | | |
|-----------|----------|-------------|-----|--------|---------------|--------|----------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.00 g | 5.00 g | 32434 | 08/18/22 14:24 | AJ | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 32438 | 08/18/22 17:30 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 32394 | 08/18/22 09:11 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32384 | 08/18/22 11:45 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 32301 | 08/17/22 08:34 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32431 | 08/18/22 13:41 | CH | FET MID |

Client Sample ID: PH03 Lab Sample ID: 890-2760-2

Date Collected: 08/16/22 09:35 Matrix: Solid

Date Received: 08/16/22 12:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 4.99 g | 32434 | 08/18/22 14:24 | AJ | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 32438 | 08/18/22 17:51 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 32394 | 08/18/22 09:11 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32384 | 08/18/22 12:51 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 32301 | 08/17/22 08:34 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 5 | | | 32431 | 08/18/22 14:04 | CH | EET MID |

Client Sample ID: PH03

Date Collected: 08/16/22 09:40

Lab Sample ID: 890-2760-3

Matrix: Solid

Date Received: 08/16/22 12:24

| Batch | Batch | Di | Dil | Initial | Final | Batch | Prepared | | | |
|-----------|----------|-------------|-----|---------|---------|--------|----------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.98 g | 4.98 g | 32434 | 08/18/22 14:24 | AJ | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 32438 | 08/18/22 18:12 | AJ | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32394 | 08/18/22 09:11 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32384 | 08/18/22 13:13 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 32301 | 08/17/22 08:34 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 32431 | 08/18/22 14:12 | CH | EET MID |

Client Sample ID: PH01 Lab Sample ID: 890-2760-4

Date Collected: 08/16/22 09:45 Date Received: 08/16/22 12:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 32382 | 08/17/22 19:25 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32367 | 08/18/22 19:45 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |

Eurofins Carlsbad

Matrix: Solid

Page 21 of 28

Job ID: 890-2760-1

SDG: 03A1987013

Client Sample ID: PH01

Client: Ensolum

Project/Site: EP USA 5

Lab Sample ID: 890-2760-4

Matrix: Solid

Date Collected: 08/16/22 09:45 Date Received: 08/16/22 12:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 32395 | 08/18/22 09:14 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32386 | 08/18/22 11:45 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.96 g | 50 mL | 32301 | 08/17/22 08:34 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 32431 | 08/18/22 14:20 | CH | EET MID |

Lab Sample ID: 890-2760-5

Matrix: Solid

Date Collected: 08/16/22 09:50 Date Received: 08/16/22 12:24

Client Sample ID: PH01

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 32382 | 08/17/22 19:25 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32367 | 08/18/22 20:11 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 32395 | 08/18/22 09:14 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32386 | 08/18/22 12:51 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 32301 | 08/17/22 08:34 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 32431 | 08/18/22 14:28 | CH | EET MID |

Client Sample ID: PH01 Lab Sample ID: 890-2760-6

Matrix: Solid

Date Collected: 08/16/22 09:55 Date Received: 08/16/22 12:24

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 32382 | 08/17/22 19:25 | MR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | | | 32367 | 08/18/22 20:37 | MR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 32503 | 08/19/22 11:07 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 32449 | 08/18/22 16:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 32395 | 08/18/22 09:14 | DM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | | | 32386 | 08/18/22 13:13 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 32301 | 08/17/22 08:34 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 10 | | | 32431 | 08/18/22 14:51 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

Laboratory: Eurofins Midland

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

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|----------------------------------|-----------------------------------|---|-------------------------|
| Texas | NE | ELAP | T104704400-22-24 | 06-30-23 |
| The following analytes | are included in this report, bu | it the laboratory is not certific | ed by the governing authority. This list ma | av include analytes for |
| the agency does not of | fer certification. | • | , , , | ., |
| the agency does not of Analysis Method | fer certification . Prep Method | Matrix | Analyte | -, |
| 0 , | | Matrix Solid | Analyte Total TPH | |

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Method Summary

 Client: Ensolum
 Job ID: 890-2760-1

 Project/Site: EP USA 5
 SDG: 03A1987013

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: EP USA 5

Job ID: 890-2760-1

SDG: 03A1987013

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2760-1 | PH03 | Solid | 08/16/22 09:30 | 08/16/22 12:24 | 5' |
| 890-2760-2 | PH03 | Solid | 08/16/22 09:35 | 08/16/22 12:24 | 7' |
| 890-2760-3 | PH03 | Solid | 08/16/22 09:40 | 08/16/22 12:24 | 9' |
| 890-2760-4 | PH01 | Solid | 08/16/22 09:45 | 08/16/22 12:24 | 5' |
| 890-2760-5 | PH01 | Solid | 08/16/22 09:50 | 08/16/22 12:24 | 7' |
| 890-2760-6 | PH01 | Solid | 08/16/22 09:55 | 08/16/22 12:24 | 9' |

eurofins **Environment Testing**

Chain of Custody

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

| | s) Necessed by (olystatus) | Relinquisited by. (Signature) | 1) T | | 1/0/22 | 7 | nature) | Received by: (signature) | Receive | 3 | y: (Signature) | Relinquished by: (Signature) |
|--|---|---|---|--|--------------------------------------|--|--|---|--|-------------------------------------|-----------------------------------|--|
| ionature) Date/Time | Becaived by: /Si | Delinguished by: (Signature | | Thoras | | | | J 5 (6: | | | () | |
| tions ontrol gotlated. | assigns standard terms and conditic due to circumstances beyond the cor ill be enforced unless previously neg | 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 \$86.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Eurofins Xen expenses ir o Eurofins X | npany to E losses or lbmitted to | client con y for any sample su | order from c responsibility \$5 for each s | id purchas ssume any a charge of | stitutes a val nd shall not a 1 project and | of samples con t of samples a applied to eac | linquishment only for the cos | cument and re will be liable o | votice: Signature of this do of service. Eurofins Xenco of Eurofins Xenco. A minin |
| \g SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471 | K Se Ag | B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | Be Bo | Sb As Ba Be I Sb As Ba Be | 11 | CRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA | 13PPM / SPLP 6 | 8RCRA 1: TCLP/ | | 200.8 / 6020: al(s) to be analyz | 0 200.8 9 Metal(s) to | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed |
| | | | | | _ | | 1 | | | | | |
| | | | | | | C | - | 120 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | |
| | | | × | × | | Grab/ | ω | 9:55 | 8.16.22 | S | | PH01 |
| | | | × | × | | Grab/ | 7' | 9:50 | 8.16.22 | S | | PH01 |
| NMAP1826970471 | | | × | × | | Grab/ | Ω | 9:45 | 8.16.22 | S | | PH01 |
| Incident ID | | | × | × | | Grab/ | 9' | 9:40 | 8.16.22 | S | | PH03 |
| | | | × | × | - | Grab/ | 7' | 9:35 | 8.16.22 | S | | PH03 |
| | | | × | × | > | Grab/ | ΩĪ | 9:30 | 8.16.22 | S | | PH03 |
| Sample Comments | | | втех | TPH (8 | # of | Grab/ Comp | Depth | Time Sampled | Date Sampled | Matrix | ification | Sample Identification |
| NaOH+Ascorbic Acid: SAPC | | | | | | Ó | (Z) | emperature | Corrected Temperature: | | | Total Containers: |
| Zn Acetate+NaOH: Zn | dy | o90-2760 Chain of Custody | | | | e | W | e Reading: | Temperature Reading: | No NIA | Yes | Sample Custody Seals: |
| Na ₂ S ₂ O ₃ : NaSO ₃ | | | | PA: | _ | 4 | 3- | actor: | Correction Factor: | No MA | Yes | Cooler Custody Seals: |
| NaHSO ₄ : NABIS | | | | 300 | | 1 | ゴジ | er ID: | Thermometer ID: | s) No | act: (Yes) | Samples Received Intact: |
| H ₃ PO ₄ : HP | | | |).0) | nete | S S | (Teg | Wet Ice: | No No | Temp Blank: | | SAMPLE RECEIPT |
| H ₂ SO ₄ : H ₂ NaOH: Na | | | | | ers | 4:30pm | eceived b | the lab, if received by 4:30pm | | | 1061232001 | CC #: |
| HCL: HC HNO3: HN | | | | | | ceived by | the day re | TAT starts the day received by | | one | Gilbert Moreno | |
| Cool: Cool MeOH: Me | | | | | | 24 HR | | Due Date: | | Z | Rural Eddy, NM | Project Location: |
| None: NO DI Water: H ₂ O | | | | | Code | | √ Rush | ☐ Routine | | ω | 03A1987013 | Project Number: |
| Preservative Codes | EST | ANALYSIS REQUEST | | | | | Turn Around | Tu | | | EP USA 5 | Project Name: |
| ADaPT Other: | Deliverables: EDD | | n.raley@ | .com, jir | solum | jhernandez@Ensolum.com, jim.raley@dvn.com | il: jherna | Email: | | 29 | 281-702-2329 | Phone: |
| PST/UST TRRP Level IV | Reporting: Level II PST/UST TRRP | | Carlsbad, NM 88220 | arisbad, | C | City, State ZIP: | City, S | | | M 88220 | Carlsbad, NM 88220 | City, State ZIP: |
| | State of Project: | | 5315 Buena Vista Dr | 15 Buer | 5 | S: | Address | | VΥ | al Parks H | 3122 National Parks HWY | Address: |
| Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ | rogram: UST/PST ☐ PRP☐ | | | WPX | 5 | Company Name: | Comp | | | | Ensolum | Company Name: |
| Work Order Comments | Work O | | | Jim Raley | J. | Bill to: (if different) | Bill to: | | | nandez | Joseph Hernandez | Project Manager: |
| o.com Page of | www.xenco.com | Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 | 50, Carlsba | 5) 392-75 | NM (57 | Hobbs, | | | | | | |
| | | EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 | 443, Lubbo | 15) 585-3 | o, TX (9 | EL Pas | | | | Xenco | | |
| er No: | Work Order No: | Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 | 0, San Ant | 704-544 | TX (432 | Midland, | | sting | Environment Testing | Environ | | |

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Revised Date 08/25/2020 Rev 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2760-1

SDG Number: 03A1987013

Login Number: 2760 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. True Sample bottles are completely filled. True Sample Preservation Verified. N/A There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs

N/A

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4.0

4.6

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<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2760-1 SDG Number: 03A1987013

Login Number: 2760
List Source: Eurofins Midland
List Number: 2
List Creation: 08/17/22 11:50 AM

Creator: Rodriguez, Leticia

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

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14

<6mm (1/4").



APPENDIX H

Email Correspondence

Joseph Hernandez

From: Anna Byers

Sent: Thursday, June 9, 2022 12:09 PM

To: ocd.enviro@state.nm.us; Morgan, Crisha A; 'CFO_Spill, BLM_NM'

Cc: jim.raley@dvn.com; Devon-Team

Subject: WPX Site Activity Update for Week of June 13, 2022

Good afternoon,

WPX anticipates conducting final confirmation soil sampling activities at the following site between June 13 through June 17, 2022:

Site: RDX Federal 21 #044

API: 30-015-41193

Incident Number: nAPP2115533694

Site: RDX Federal 28 #011

API: 30-015-42109

Incident Number: nAPP2215732821

Site: EP USA #005 API: 30-015-25020

Incident Number: NMAP1826970471

Thank you,



From: <u>Joseph Hernandez</u>

To: ocd.enviro@state.nm.us; "CFO Spill, BLM NM"

Cc: Raley, Jim; Devon-Team

Subject: WPX Site Sampling Activity Update (8/16-8/19/22)

Date: Monday, August 15, 2022 8:51:00 AM

Attachments: <u>image001.pnq</u>

image002.png image003.png image004.png

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following sites between August 16 through August 19, 2022:

<u>Site: Tucker Draw 9-4-4</u> API: 30-015-44487

Incident Number: nAB1812338789

Site: EP USA #005 API: 30-015-25020

Incident Number: NMAP1826970471



Joseph S. Hernandez

Senior Geologist 281-702-2329 Ensolum, LLC

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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 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 141960

CONDITIONS

| Operator: | OGRID: |
|---------------------------|---|
| WPX Energy Permian, LLC | 246289 |
| Devon Energy - Regulatory | Action Number: |
| Oklahoma City, OK 73102 | 141960 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created | Condition | Condition |
|---------|--|-----------|
| Ву | | Date |
| jnobui | Remediation Plan Approved with Conditions. OCD only approves implementing Option A (excavated soil will be transferred to a New Mexico approved landfill facility for disposal). Option B (an onsite ex-situ treatment cell for chloride extraction) cannot be approved at this time without further discussions with OCD. | 9/19/2022 |