

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	NAPP2300343390
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.10371 Longitude -103.77792
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 28 Big Sinks East	Site Type Tank Battery
Date Release Discovered 12/22/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	28	25S	31E	Eddy

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 19.97	Volume Recovered (bbls) 0.00
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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 A regulator valve on the main sales line froze, causing vessel to overpressure sending fluid out of the PRV. No fluids were recovered. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Garrett Green</u>	Title: <u>SSHE Coordinator</u>
Signature: <u></u>	Date: <u>01/03/2022</u>
email: <u>garrett.green@exxonmobil.com</u>	Telephone: <u>575-200-0729</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>01/03/2023</u>

Location:	PLU 28 Big Sinks East	
Spill Date:	12/22/2022	
Area 1		
Approximate Area =	92815.00	sq. ft.
Average Saturation (or depth) of spill =	0.25	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	10.33	bbls
Total Produced Water =	0.00	bbls
Area 2		
Approximate Area =	19212.00	sq. ft.
Average Saturation (or depth) of spill =	0.06	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	2.57	bbls
Total Produced Water =	0.00	bbls
Area 3		
Approximate Area =	52893.00	sq. ft.
Average Saturation (or depth) of spill =	0.06	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	7.07	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	19.97	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls

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

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

CONDITIONS

Action 171710

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 171710
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/3/2023

Incident ID	NAPP2300343390
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (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
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Garrett GreenTitle: SSHE CoordinatorSignature: Date: 06/23/2023email: garrett.green@exxonmobil.comTelephone: 575-200-0729**OCD Only**Received by: Shelly WellsDate: 6/27/2023

Incident ID	NAPP2300343390
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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Garrett Green

Title: SSHE Coordinator

Signature: 

Date: 06/23/2023

email: garrett.green@exxonmobil.com

Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells

Date: 6/27/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



June 26, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLU 28 Big Sinks East
Incident Number NAPP2300343390
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc (XTO), has prepared this *Closure Request* to document assessment, remediation, and soil sampling activities performed at the PLU 28 Big Sinks East (Site). The purpose of the assessment, remediation, and soil sampling activities was to address impacts to soil following a crude oil release at the Site. Based on the remediation activities completed and laboratory analytical results from the soil sampling events, XTO is submitting this *Closure Request* and requesting no further action for Incident Number NAPP2300343390.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit H, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.10371°, -103.77792°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 22, 2022, a regulator valve on the main sales line froze, causing the vessel to over pressurize and spray crude oil out of the pressure relief valve. Approximately 19.97 barrels (bbls) of crude oil were released. The crude oil spray affected approximately 47,500 square feet of the well pad and misted approximately 117,500 square feet of pasture southwest of the well pad. No fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 3, 2023. The release was assigned Incident Number NAPP2300343390.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. A soil boring was drilled 0.45 miles west of the Site during March 2021 for determination of regional groundwater depth. The soil boring was permitted by the New Mexico Office of the State Engineer (NMOSE file number C-4500) and was drilled to a depth of 110 feet bgs utilizing a truck-mounted hollow-stem auger rig. A field geologist logged and described soils

continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 7,075 feet southwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between March 10, 2023 and March 17, 2023, Site assessment and delineation activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Twelve assessment soil samples (SS01 through SS12) were collected within and around the release extent at a depth of 0.5 feet bgs to assess the lateral extent of the release. Four potholes (PH01 through PH04) were advanced by use of heavy equipment or hand auger at the locations of assessment samples SS01 through SS04 to assess the vertical extent of the release. Discrete delineation soil samples were collected from the potholes at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. Field screening results and observations from the potholes were documented on lithologic/soil sampling logs, which are included in Appendix B. The release extent, potholes, and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to

6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results for the assessment and delineation soil samples are summarized below:

- Laboratory analytical results for assessment soil samples SS01 through SS04, collected at a depth of 0.5 feet bgs, and pothole sample PH01, collected at a depth of 1-foot bgs, indicated TPH concentrations exceeded the Site Closure Criteria and reclamation requirement, where applicable.
- Laboratory analytical results for assessment soil samples SS05 through SS08, collected in the misted pasture area, indicated concentrations of all COCs were compliant with the Site Closure Criteria and reclamation requirement.
- Laboratory analytical results for assessment samples SS09, SS10, and SS12, collected outside of the release extent on the well pad, indicated concentrations of all COCs were compliant with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release on the pad to the north, east, and west.
- Laboratory analytical results for pothole delineation samples PH01A, PH02/PH02A through PH04/PH04A, collected at depths ranging from 1-foot to 4 feet bgs, indicated concentrations of all COCs were compliant with the Site Closure Criteria and successfully defined the vertical extent of the release.

Based on laboratory analytical results for the assessment and delineation soil samples, TPH impacted soil was identified at depths ranging from 0.5 feet to 2 feet bgs in the release area on the well pad and to the immediate south and west of the pad, as indicated by soil samples SS01 through SS04 and PH01. No impacted soil was identified in the pasture area southwest of the well pad that was affected by a light mist.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between April 27, 2023 and May 16, 2023, Ensolum personnel returned to the Site to oversee excavation activities as indicated by laboratory analytical results for the assessment and delineation soil samples. Soil was excavated from the release extent on the well pad and in the areas around assessment samples SS02 and SS03, located in a small pasture area between the pad and lease road. Excavation activities were performed by use of heavy equipment and transport vehicles. To direct excavation activities, Ensolum personnel field screened soil for VOCs and chloride as described above.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS121 were collected from the floor of the excavations at depths ranging from 0.5 feet to 2 feet bgs. Composite sidewall samples SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 1-foot bgs. The excavation soil samples were field screened, handled, and analyzed following the same procedures as described above. The excavation extents and excavation soil sample locations are presented on Figure 3.

The final excavation extents measured approximately 23,680 square feet. A total of approximately 780 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. The excavation area was bermed with clean soil and secured with fencing.

Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation

XTO Energy, Inc.
Closure Request
PLU 28 Big Sinks East

requirement where applicable. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

Though laboratory analytical results indicated no soil was impacted in the misted pasture area, a 5 percent solution of Micro-Blaze® and freshwater was applied to the pasture area to promote degradation of any residual hydrocarbons and promote continued growth of healthy vegetation. The Micro-Blaze® application area is depicted in Figure 4.

CLOSURE REQUEST

Site assessment, excavation, and Micro-Blaze® application were conducted at the Site to address the December 22, 2022, overspray of crude oil onto the well pad mist into the pasture. The excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement where applicable. Based on the soil sample analytical results, no further remediation was required.

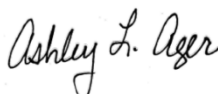
Excavation of impacted soil and application of Micro-Blaze® to the pasture have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. Based on initial response efforts, soil sample laboratory analytical results, and excavation of impacted soil, XTO respectfully requests closure for Incident Number NAPP2300343390.

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

Sincerely,
Ensolum, LLC



Meredith Roberts
Field Geologist



Ashley L. Ager, MS, PG
Principal

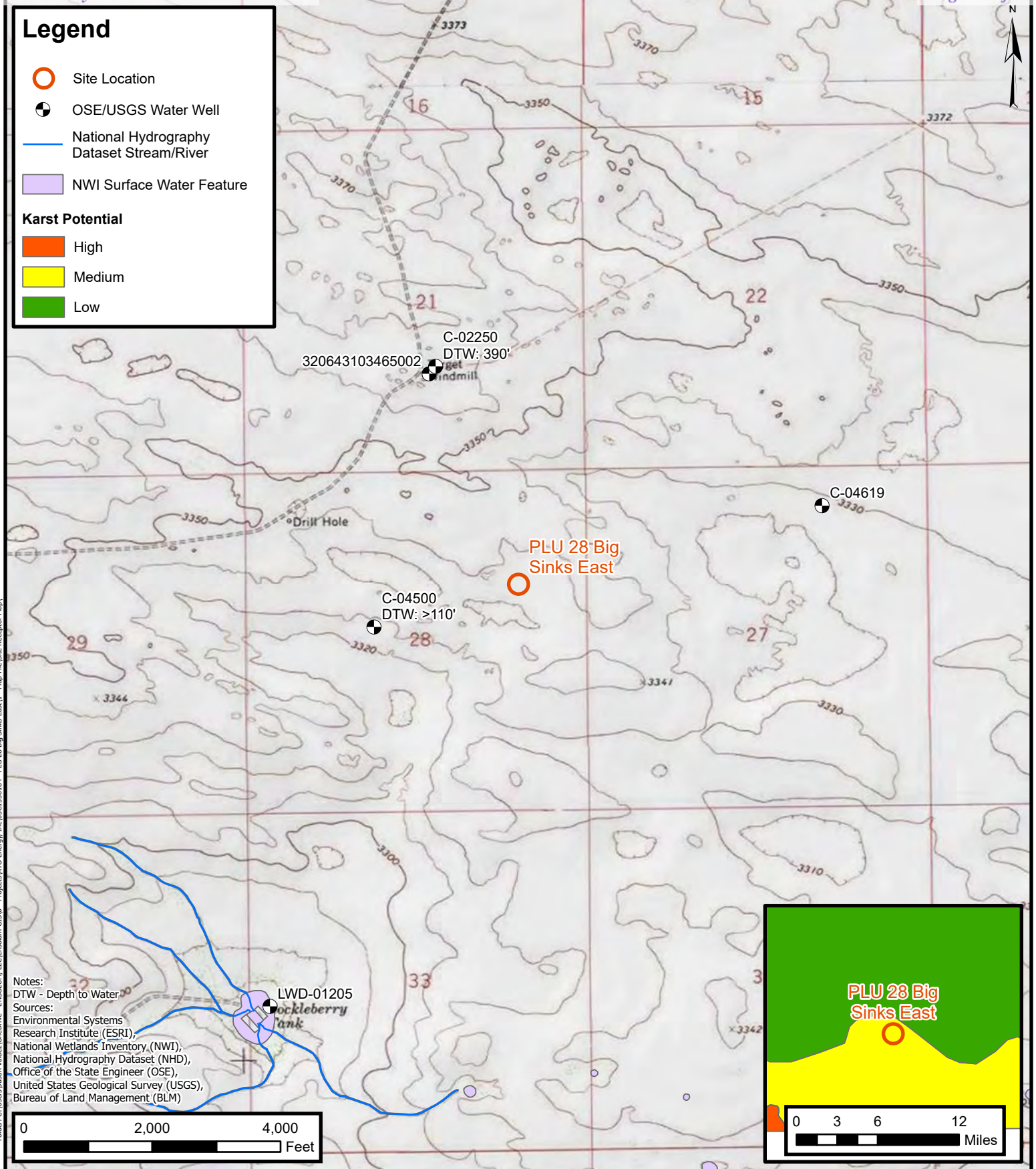
cc: Garrett Green, XTO
Shelby Pennington, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Micro-Blaze® Application Map
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES



Site Receptor Map

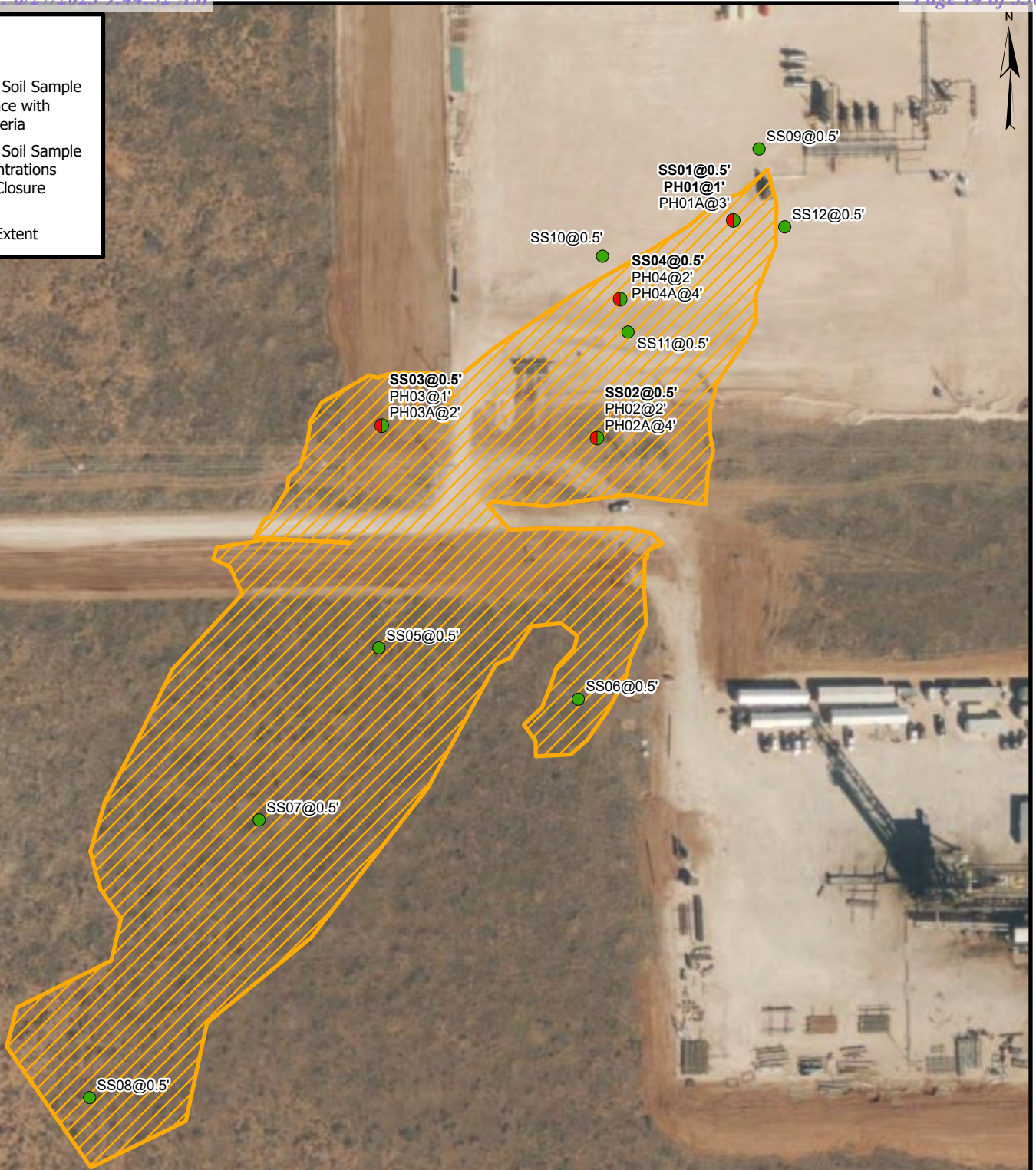
XTO Energy, Inc
PLU 28 Big Sinks East
Incident Number: NAPP2300343390
Unit H Sec 28 T25S R31E
Eddy County, New Mexico

FIGURE

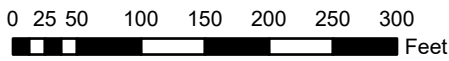
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Overspray Extent



Notes:
Sample ID @ Depth Below Ground/Surface.
Samples in bold indicate sample exceeded applicable closure criteria



Sources: Environmental Systems Research Institute (ESRI)

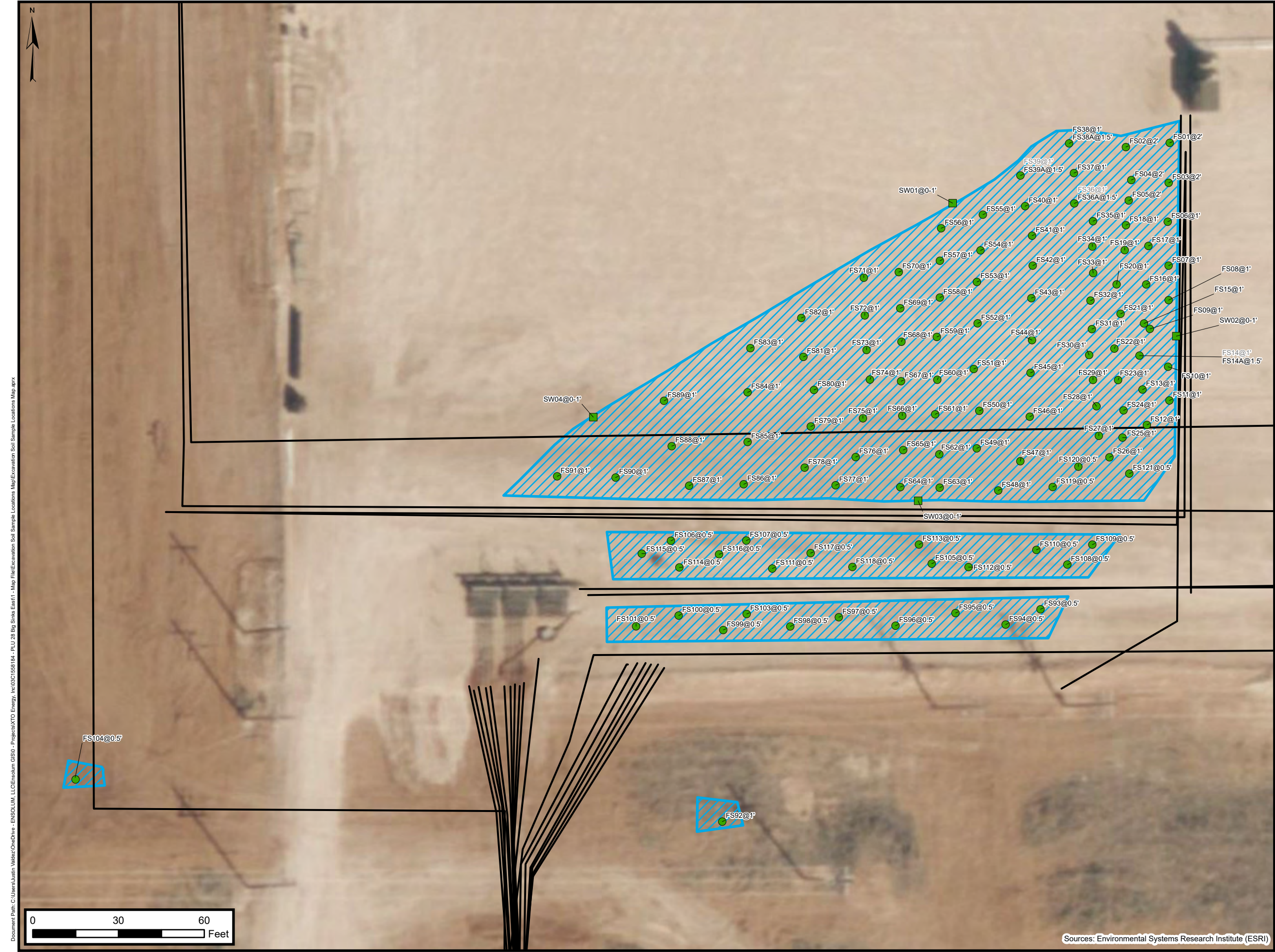


Delineation Soil Sample Locations

XTO Energy, Inc
PLU 28 Big Sinks East
Incident Number: NAPP2300343390
Unit H Sec 28 T25S R31E
Eddy County, New Mexico

FIGURE

2



Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Flowline
- Excavation Extent

Notes:
Sample ID @ Depth Below Ground Surface.

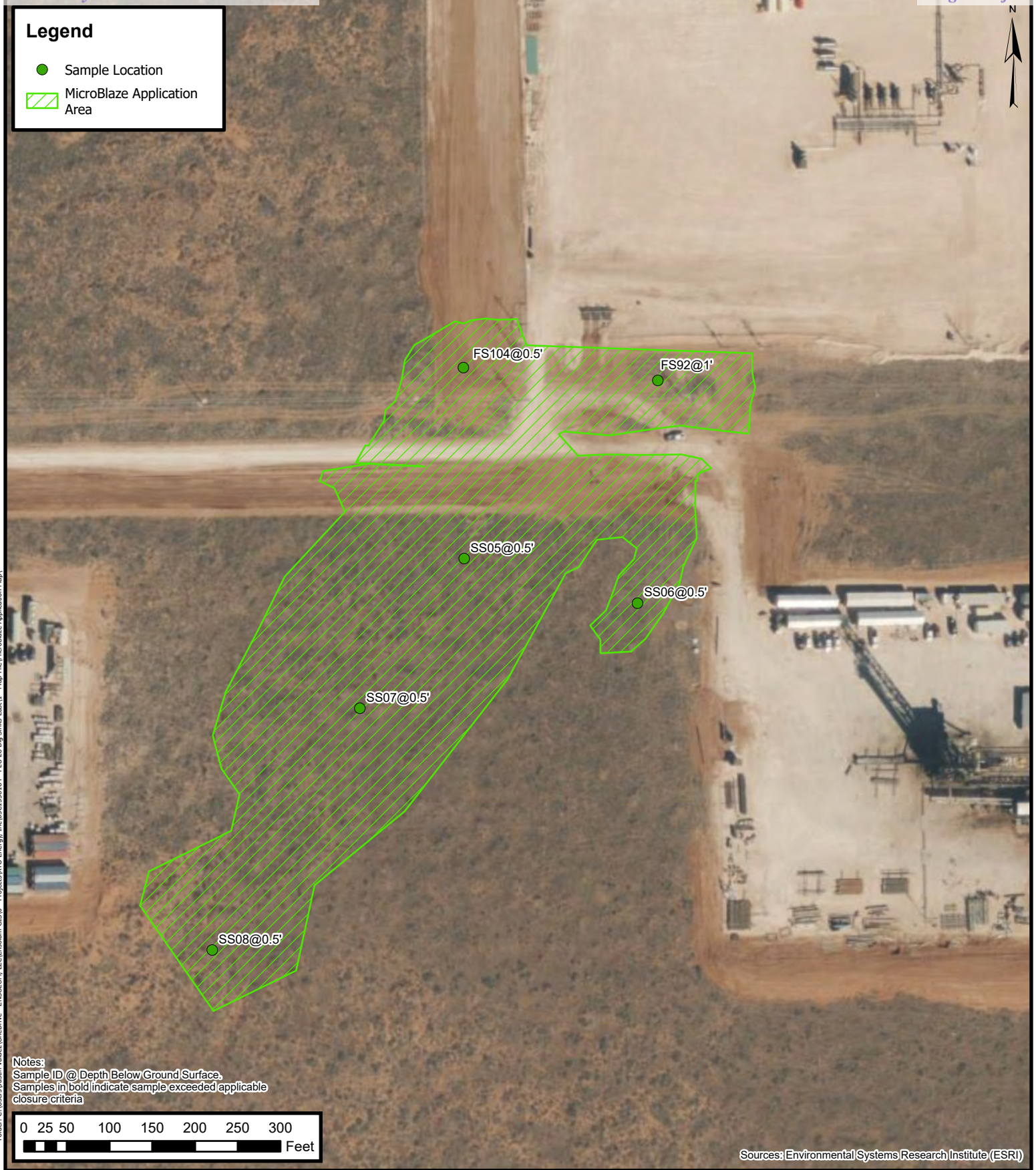
Excavation Soil Sample Locations

PLU 28 Big Sinks East
XTO Energy, Inc
Unit H Sec 28 T25S R31E
Eddy County, New Mexico

FIGURE 3

Incident Number: NAPP2300343390





Microblaze Application Map

XTO Energy, Inc
PLU 28 Big Sinks East
Incident Number: NAPP2300343390
Unit H Sec 28 T25S R31E
Eddy County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 Big Sinks East Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	03/10/2023	0.5	0.581	67.0	2,050	10,500	2,270	12,600	14,800	351
PH01	03/17/2023	1	<0.0399	14.1	744	2,250	174	2,990	3,170	192
PH01A	03/17/2023	3	<0.00202	0.00922	<49.9	<49.9	<49.9	<49.9	<49.9	86.6
SS02*	03/10/2023	0.5	<0.00200	0.0123	<49.9	15,500	1,340	15,500	16,800	502
PH02*	03/17/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	77.1
PH02A	03/17/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	137
SS03*	03/10/2023	0.5	<0.00198	<0.00396	<49.9	1910	246	1,910	2,160	30.7
PH03*	03/17/2023	1	<0.00200	<0.00399	<49.9	81.1	<49.9	81.1	81.1	78.6
PH03A*	03/17/2023	2	<0.00199	<0.00398	<49.9	91.0	<49.9	91.0	91.0	45.7
SS04	03/10/2023	0.5	<0.00202	<0.00404	<50.0	5,770	504	5,770	6,270	98.2
PH04	03/17/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	104
PH04A	03/17/2023	4	<0.00199	<0.00398	<49.8	243	52.4	243	295	89.3
SS05*	03/10/2023	0.5	<0.00200	<0.00399	<49.9	69.9	<49.9	69.9	69.9	8.82
SS06*	03/10/2023	0.5	<0.00200	<0.00401	<50.0	97.8	<50.0	97.8	97.8	8.20
SS07*	03/10/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	<5.03
SS08*	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
SS09	03/10/2023	0.5	<0.00199	0.0601	<49.9	<49.9	<49.9	<49.9	<49.9	81.3
SS10	03/10/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	152
SS11	03/10/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,360
SS12	03/10/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	4.97
Excavation Floor Samples										
FS01	05/01/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	214
FS02	05/01/2023	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	209
FS03	05/01/2023	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	208
FS04	05/01/2023	2	<0.00200	<0.00401	<49.8	59.4	<49.8	59.4	59.4	248
FS05	05/01/2023	2	<0.00199	<0.00398	<50.0	80.3	<50.0	80.3	80.3	257
FS06	05/01/2023	1	<0.00199	<0.00398	<50.0	70.3	<50.0	70.3	70.3	254
FS07	05/01/2023	1	<0.00200	<0.00399	<49.9	87.0	<49.9	87.0	87.0	267
FS08	05/01/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	254



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 Big Sinks East Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS09	05/01/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	257
FS10	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	268
FS11	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	277
FS12	05/01/2023	1	<0.00201	<0.00402	<50.0	60.5	<50.0	60.5	60.5	277
FS13	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	293
FS14	05/01/2023	1	<0.00199	<0.00398	<49.9	107	<49.9	107	107	316
FS14A	05/22/2023	1.5	<0.00200	<0.00399	<49.9	65.2	<49.9	65.2	65.2	53.3
FS15	05/01/2023	1	<0.00200	<0.00399	<50.0	91.4	<50.0	91.4	91.4	298
FS16	05/01/2023	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	49.5
FS17	05/01/2023	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	65.8
FS18	05/01/2023	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	90.7
FS19	05/01/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	187
FS20	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	199
FS21	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	197
FS22	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	212
FS23	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	187
FS24	05/01/2023	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	171
FS25	05/01/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	180
FS26	05/01/2023	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	172
FS27	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	172
FS28	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	190
FS29	05/01/2023	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	186
FS30	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	194
FS31	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<50.0	<49.8	213
FS32	05/01/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	184
FS33	05/01/2023	1	<0.00201	<0.00402	<50.0	61.4	<50.0	61.4	61.4	189
FS34	05/01/2023	1	<0.00200	<0.00401	<50.0	90.4	<50.0	90.4	90.4	207
FS35	05/01/2023	1	<0.00198	<0.00396	<49.8	57.8	<49.8	57.8	57.8	199
FS36	05/01/2023	1	<0.00199	<0.00398	<50.0	172	<50.0	172	172	197
FS36A	05/22/2023	1.5	<0.00201	<0.00402	<49.9	446	<49.9	446	446	120



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 28 Big Sinks East Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS37	05/01/2023	1	<0.00200	<0.00399	<49.9	95.6	<49.9	95.6	95.6	219
FS38	05/01/2023	1	<0.00202	<0.00403	<49.8	111	<49.8	111	111	218
FS38A	05/22/2023	1.5	<0.00200	<0.00401	<49.9	78.1	<49.9	78.1	78.1	69.5
FS39	05/01/2023	1	<0.00200	<0.00401	<49.9	116	<49.9	116	116	223
FS39A	05/22/2023	1.5	<0.00199	<0.00398	<50.0	139	<50.0	139	139	102
FS40	05/01/2023	1	<0.00199	<0.00398	<49.8	95.6	<49.8	95.6	95.6	219
FS41	05/01/2023	1	<0.00200	<0.00401	<50.0	93.9	<50.0	93.9	93.9	220
FS42	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	284
FS43	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	275
FS44	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	176
FS45	05/01/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	297
FS46	05/01/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	302
FS47	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	213
FS48	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	228
FS49	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	221
FS50	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	224
FS51	05/01/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	268
FS52	05/01/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	279
FS53	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	266
FS54	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	282
FS55	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	190
FS56	05/01/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	48.7
FS57	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.9
FS58	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	237
FS59	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	144
FS60	05/01/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	40.8
FS61	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	241
FS62	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	249
FS63	05/01/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	217
FS64	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	240



TABLE 1
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PLU 28 Big Sinks East Battery
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS65	05/01/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	269
FS66	05/01/2023	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	282
FS67	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	281
FS68	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	152
FS69	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	311
FS70	05/01/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	303
FS71	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	295
FS72	05/01/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	298
FS73	05/01/2023	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	311
FS74	05/01/2023	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	205
FS75	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	210
FS76	05/01/2023	1	<0.00198	<0.00396	<49.8	75.3	<49.8	75.3	75.3	190
FS77	05/01/2023	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	204
FS78	05/01/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	203
FS79	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	191
FS80	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	189
FS81	05/01/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	49.5
FS82	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	201
FS83	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	259
FS84	05/01/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	239
FS85	05/01/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	289
FS86	05/01/2023	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	253
FS87	05/01/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	282
FS88	05/01/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	287
FS89	05/01/2023	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	286
FS90	05/01/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	296
FS91	05/01/2023	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	293
FS92*	05/01/2023	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	275
FS93	06/16/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	45.9
FS94	06/16/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	50.0



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PLU 28 Big Sinks East Battery
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS95	06/16/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	65.9
FS96	06/16/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	54.8
FS97	06/16/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	72.2
FS98	06/16/2023	0.5	<0.00202	<0.00404	<50.0	88.4	<50.0	88.4	88.4	53.0
FS99	06/16/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	56.8
FS100	06/16/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	84.8
FS101	06/16/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	86.4
FS102	06/16/2023	0.5	<0.00199	<0.00398	<49.9	228	<49.9	228	228	34.6
FS103	06/16/2023	0.5	<0.00201	<0.00402	<49.8	54.5	<49.8	54.5	54.5	70.7
FS104*	06/16/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	86.2
FS105	06/16/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	66.4
FS106	06/16/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.3
FS107	06/16/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	45.2
FS108	06/16/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	56.0
FS109	06/16/2023	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	46.5
FS110	06/16/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	34.9
FS111	06/16/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	48.3
FS112	06/16/2023	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	37.3
FS113	06/16/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	64.3
FS114	06/16/2023	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	39.2
FS115	06/16/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	29.6
FS116	06/16/2023	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	44.7
FS117	06/16/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	47.8
FS118	06/16/2023	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	91.0
FS119	06/16/2023	0.5	<0.00199	<0.00398	<50.0	423	54.9	423	478	62.4
FS120	06/16/2023	0.5	<0.00199	<0.00398	<50.0	166	<50.0	166	166	46.6
FS121	06/16/2023	0.5	<0.00202	<0.00403	<50.0	79.9	<50.0	79.9	79.9	96.4



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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Sidewall Samples										
SW01	05/01/2023	0-1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	307
SW02	05/01/2023	0-1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	297
SW03	05/01/2023	0-1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	299
SW04	05/01/2023	0-1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	307

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

* Indicates sample collected in area to be reclaimed after remediation is complete; reclamation requirement for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4500			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 6	SECONDS 6.96 N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	47	6.75 W	• DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE NW Sec. 28 T25S R31E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/24/2021		DRILLING ENDED 03/24/2021		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	110	±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

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

FILE NO.	C-4500	POD NO.	1	TRN NO.	682534
LOCATION	Exp	25S.31E.28.144	WELL TAG ID NO.	—	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, no odor, no stain, tan, light-brown	Y ✓ N	
	1	3	2	Sand, no odor, no stain, m-f, well sorted, brown, trace silt, low consolidation	Y ✓ N	
	3	7	4	Sandy clay, no odor, no stain, m-f, brown, well sorted, low plasticity, cohesive	Y ✓ N	
	7	23	16	Caliche, tan, light brown sand, m-f grained, poorly sorted, low consolidation	Y ✓ N	
	23	110	87	sand, brown, no odor, no stain, fine grained, well sorted, low consolidation	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: PLU 28 BS 126H, Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			Jackie D. Atkins DATE		

FOR OSE INTERNAL USE

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

FILE NO. C-4500	POD NO. 1	TRN NO. 482534
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 03/17/2023					
								Site Name: Plu 28 Big Sinks East							
								Incident Number: NAPP230343390							
								Job Number: 03C1558184							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe					
Coordinates: 32.10405, -103.77731								Hole Diameter:		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0	CCHE	0-2' CALICHE, medium brown, poorly sorted, sub-rounded grains, stain, odor, dry.							
D	<168	592	Y	PH01	1	1									
M	<168	158	N			2	SP	2-4' SAND with trace silt, red, fine grained, faint odor, no stain, moist.							
M	<168	30.7	N	PH01A	3	3									
M	<168	30.2	N	PH01B	4	4									
						TD		Total Depth @ 4' bgs.							

								Sample Name: PH02		Date: 03/17/2023					
								Site Name: Plu 28 Big Sinks East							
								Incident Number: NAPP230343390							
								Job Number: 03C1558184							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe					
Coordinates: 32.103438, -103.77754								Hole Diameter: NA		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
D	207	7.0	Y	PH02	2	0	CCHE	0-2' CALICHE, medium brown, poorly sorted, sub-rounded grains, stain, odor, dry.							
						1									
M	<168	9.2	N			2	2					SP			
M	<168	6	N	PH02B	4	3		2-4' SAND with trace silt, red, fine grained, no odor, no stain, moist.							
M	<168	0.8	N			4						4			
						TD	Total Depth @ 4' bgs.								

								Sample Name: PH03		Date: 03/17/2023					
								Site Name: Plu 28 Big Sinks East							
								Incident Number: NAPP230343390							
								Job Number: 03C1558184							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Hand Auger					
Coordinates: 32.10339, -103.77846								Hole Diameter: 6"		Total Depth: 2'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0	SP	0-1.5' SAND with trace silt, red, v. fine grained, no stain, no odor, moist.							
M	<168	0.0	N	PH03	1	1		1.5'-2' SAND with trace silt and caliche, red sand with white/light brown caliche, no stain/odor, moist.							
M	<168	0.0	N	PH03A	2	2									
						TD		Auger refusal, Total Depth @ 2' bgs.							

								Sample Name: PH04		Date: 03/17/2023					
								Site Name: Plu 28 Big Sinks East							
								Incident Number: NAPP230343390							
								Job Number: 03C1558184							
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Hand Auger					
Coordinates: 32.10390, -103.77755								Hole Diameter: 6"		Total Depth: 4'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included in all chloride screenings.															
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions							
						0	SP	0-4' SAND with trace silt, red, v. fine grained, no stain, no odor, moist.							
M	<168	0.3	N	PH04	1	1									
M	<168	0.3	N			2									
M	<168	0.3	N			3									
M	<168	0.3	N	PH04A	4	4		Total Depth @ 4' bgs.							
						TD									

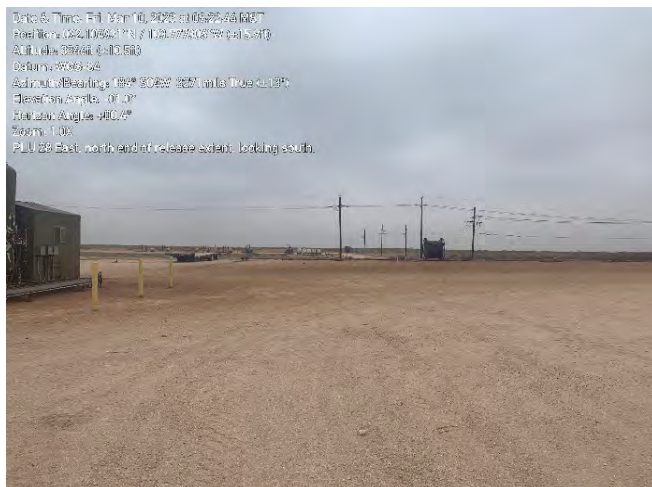


APPENDIX C

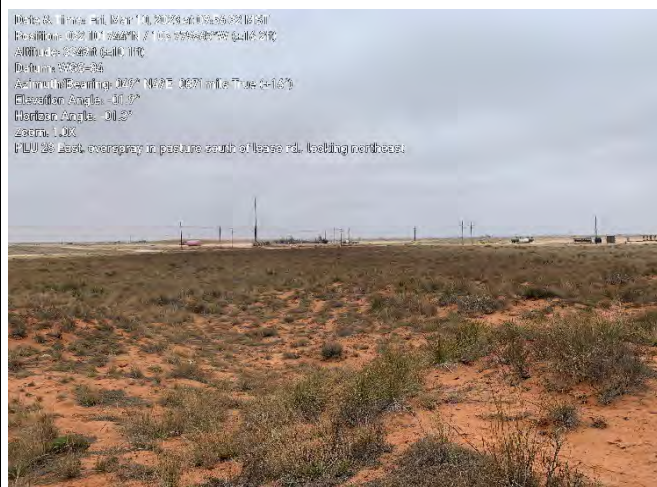
Photographic Log



Photographic Log
XTO Energy, Inc
PLU 28 Big Sinks East
NAPP2300343390



Photograph 1 Date: 03/10/2023
Description: Release extent on pad
View: Southwest



Photograph 2 Date: 03/10/2023
Description: Overspray in pasture; vegetation is still healthy.
View: Northeast



Photograph 3 Date: 04/27/2023
Description: Excavation activities on pad
View: Southwest



Photograph 4 Date: 05/01/2023
Description: Completed excavation extent
View: Northeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 4:48:28 PM Revision 1

JOB DESCRIPTION

PLU 28 Big Sinks East Battery
SDG NUMBER 03C1558184

JOB NUMBER

890-4291-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

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

Generated
4/3/2023 4:48:28 PM
Revision 1

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Laboratory Job ID: 890-4291-1
SDG: 03C1558184

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Job ID: 890-4291-1**Laboratory: Eurofins Carlsbad****Narrative**

Job Narrative
890-4291-1

REVISION

The report being provided is a revision of the original report sent on 3/24/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

Report revision history

Receipt

The samples were received on 3/10/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4291-1), SS02 (890-4291-2), SS03 (890-4291-3), SS04 (890-4291-4), SS09 (890-4291-5), SS10 (890-4291-6), SS11 (890-4291-7) and SS12 (890-4291-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4291-1), SS09 (890-4291-5) and SS12 (890-4291-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-49111 and analytical batch 880-49163 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-49111/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-4291-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-49192/2-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4291-1) and SS02 (890-4291-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4291-1) and SS02 (890-4291-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50008/2-A) and (LCSD 880-50008/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Job ID: 890-4291-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS01

Lab Sample ID: 890-4291-1

Date Collected: 03/10/23 10:40

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.581		0.0497	mg/Kg		03/21/23 09:28	03/21/23 17:13	25
Toluene	8.73		0.0497	mg/Kg		03/21/23 09:28	03/21/23 17:13	25
Ethylbenzene	4.21		0.0497	mg/Kg		03/21/23 09:28	03/21/23 17:13	25
m-Xylene & p-Xylene	42.7		0.797	mg/Kg		03/22/23 11:22	03/24/23 11:31	200
o-Xylene	10.8		0.398	mg/Kg		03/22/23 11:22	03/24/23 11:31	200
Xylenes, Total	53.5		0.797	mg/Kg		03/22/23 11:22	03/24/23 11:31	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	316	S1+	70 - 130	03/21/23 09:28	03/21/23 17:13	25
1,4-Difluorobenzene (Surr)	96		70 - 130	03/21/23 09:28	03/21/23 17:13	25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	67.0		0.797	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14800		249	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2050		49.9	mg/Kg		03/14/23 13:44	03/15/23 00:58	1
Diesel Range Organics (Over C10-C28)	10500		249	mg/Kg		03/14/23 13:39	03/17/23 04:39	5
Oil Range Organics (Over C28-C36)	2270		49.9	mg/Kg		03/14/23 13:44	03/15/23 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	302	S1+	70 - 130	03/14/23 13:44	03/15/23 00:58	1
o-Terphenyl	356	S1+	70 - 130	03/14/23 13:44	03/15/23 00:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	351		4.95	mg/Kg			03/20/23 12:29	1

Client Sample ID: SS02

Lab Sample ID: 890-4291-2

Date Collected: 03/10/23 10:45

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 18:36	1
Toluene	0.00413		0.00200	mg/Kg		03/21/23 09:28	03/21/23 18:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 18:36	1
m-Xylene & p-Xylene	0.00817		0.00399	mg/Kg		03/21/23 09:28	03/21/23 18:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 18:36	1
Xylenes, Total	0.00817		0.00399	mg/Kg		03/21/23 09:28	03/21/23 18:36	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS02

Lab Sample ID: 890-4291-2

Date Collected: 03/10/23 10:45

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/21/23 09:28	03/21/23 18:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/21/23 09:28	03/21/23 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0123		0.00399	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16800		250	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 01:21	1
Diesel Range Organics (Over C10-C28)	15500		250	mg/Kg		03/14/23 13:39	03/17/23 05:00	5
Oil Range Organics (Over C28-C36)	1340		49.9	mg/Kg		03/14/23 13:44	03/15/23 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/14/23 13:44	03/15/23 01:21	1
o-Terphenyl	233	S1+	70 - 130	03/14/23 13:44	03/15/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	502		5.03	mg/Kg			03/20/23 12:33	1

Client Sample ID: SS03

Lab Sample ID: 890-4291-3

Date Collected: 03/10/23 11:15

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/21/23 11:42	03/22/23 13:38	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/21/23 11:42	03/22/23 13:38	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/21/23 11:42	03/22/23 13:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/21/23 11:42	03/22/23 13:38	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/21/23 11:42	03/22/23 13:38	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/21/23 11:42	03/22/23 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/21/23 11:42	03/22/23 13:38	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/21/23 11:42	03/22/23 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/24/23 15:03	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS03

Lab Sample ID: 890-4291-3

Date Collected: 03/10/23 11:15

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2160		49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 02:04	1
Diesel Range Organics (Over C10-C28)	1910		49.9	mg/Kg		03/14/23 13:44	03/15/23 02:04	1
Oil Range Organics (Over C28-C36)	246		49.9	mg/Kg		03/14/23 13:44	03/15/23 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			03/14/23 13:44	03/15/23 02:04	1
o-Terphenyl	116		70 - 130			03/14/23 13:44	03/15/23 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		5.05	mg/Kg			03/20/23 12:38	1

Client Sample ID: SS04

Lab Sample ID: 890-4291-4

Date Collected: 03/10/23 11:20

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/21/23 09:28	03/21/23 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			03/21/23 09:28	03/21/23 19:17	1
1,4-Difluorobenzene (Surr)	80		70 - 130			03/21/23 09:28	03/21/23 19:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6270		50.0	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 02:27	1
Diesel Range Organics (Over C10-C28)	5770		50.0	mg/Kg		03/14/23 13:44	03/15/23 02:27	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS04

Date Collected: 03/10/23 11:20

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

Lab Sample ID: 890-4291-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	504		50.0	mg/Kg		03/14/23 13:44	03/15/23 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/14/23 13:44	03/15/23 02:27	1
o-Terphenyl	104		70 - 130			03/14/23 13:44	03/15/23 02:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.2		5.04	mg/Kg			03/20/23 12:43	1

Client Sample ID: SS09

Date Collected: 03/10/23 12:55

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

Lab Sample ID: 890-4291-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
o-Xylene	0.0601		0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
Xylenes, Total	0.0601		0.00398	mg/Kg		03/21/23 09:28	03/21/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			03/21/23 09:28	03/21/23 19:38	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130			03/21/23 09:28	03/21/23 19:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0601		0.00398	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 17:00	04/01/23 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 17:00	04/01/23 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 17:00	04/01/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/24/23 17:00	04/01/23 18:31	1
o-Terphenyl	90		70 - 130			03/24/23 17:00	04/01/23 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.3		4.98	mg/Kg			03/20/23 12:58	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS10

Lab Sample ID: 890-4291-6

Date Collected: 03/10/23 13:00

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/21/23 09:28	03/21/23 19:58	1
o-Xylene	0.00378		0.00199	mg/Kg		03/21/23 09:28	03/21/23 19:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/21/23 09:28	03/21/23 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/21/23 09:28	03/21/23 19:58	1
1,4-Difluorobenzene (Surr)	74		70 - 130	03/21/23 09:28	03/21/23 19:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/14/23 13:44	03/15/23 03:11	1
o-Terphenyl	107		70 - 130	03/14/23 13:44	03/15/23 03:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		4.99	mg/Kg			03/20/23 13:02	1

Client Sample ID: SS11

Lab Sample ID: 890-4291-7

Date Collected: 03/10/23 13:05

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/21/23 09:28	03/21/23 20:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/21/23 09:28	03/21/23 20:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/21/23 09:28	03/21/23 20:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/21/23 09:28	03/21/23 20:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/21/23 09:28	03/21/23 20:19	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/21/23 09:28	03/21/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/21/23 09:28	03/21/23 20:19	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS11

Lab Sample ID: 890-4291-7

Date Collected: 03/10/23 13:05

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77		70 - 130	03/21/23 09:28	03/21/23 20:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 03:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/14/23 13:44	03/15/23 03:34	1
o-Terphenyl	102		70 - 130			03/14/23 13:44	03/15/23 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		24.8	mg/Kg			03/20/23 13:17	5

Client Sample ID: SS12

Lab Sample ID: 890-4291-8

Date Collected: 03/10/23 13:10

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 20:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 20:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 20:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/21/23 09:28	03/21/23 20:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 20:39	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/21/23 09:28	03/21/23 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	03/21/23 09:28	03/21/23 20:39	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	03/21/23 09:28	03/21/23 20:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/24/23 15:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS12

Lab Sample ID: 890-4291-8

Date Collected: 03/10/23 13:10

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 03:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 03:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/14/23 13:44	03/15/23 03:56	1
o-Terphenyl	120		70 - 130			03/14/23 13:44	03/15/23 03:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.97		4.96	mg/Kg			03/20/23 13:22	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-25818-A-41-H MS	Matrix Spike	86	112
880-25818-A-41-I MSD	Matrix Spike Duplicate	107	88
880-26165-A-1-H MS	Matrix Spike	127	103
880-26165-A-1-I MSD	Matrix Spike Duplicate	129	101
890-4291-1	SS01	316 S1+	96
890-4291-2	SS02	115	97
890-4291-3	SS03	85	83
890-4291-4	SS04	77	80
890-4291-5	SS09	99	67 S1-
890-4291-6	SS10	103	74
890-4291-7	SS11	108	77
890-4291-8	SS12	83	58 S1-
890-4348-A-2-D MS	Matrix Spike	97	101
890-4348-A-2-E MSD	Matrix Spike Duplicate	85	98
LCS 880-49091/1-A	Lab Control Sample	86	107
LCS 880-49111/1-A	Lab Control Sample	84	92
LCS 880-49192/1-A	Lab Control Sample	129	101
LCSD 880-49091/2-A	Lab Control Sample Dup	91	93
LCSD 880-49111/2-A	Lab Control Sample Dup	101	104
LCSD 880-49192/2-A	Lab Control Sample Dup	132 S1+	87
MB 880-49091/5-A	Method Blank	72	75
MB 880-49111/5-A	Method Blank	64 S1-	88
MB 880-49192/5-A	Method Blank	84	86
MB 880-49328/5-A	Method Blank	78	79
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-26493-A-1-B MS	Matrix Spike	111	76
880-26493-A-1-C MSD	Matrix Spike Duplicate	116	77
890-4291-1	SS01	302 S1+	356 S1+
890-4291-2	SS02	94	233 S1+
890-4291-3	SS03	105	116
890-4291-4	SS04	93	104
890-4291-5	SS09	115	90
890-4291-6	SS10	98	107
890-4291-7	SS11	92	102
890-4291-8	SS12	104	120
LCS 880-50008/2-A	Lab Control Sample	86	65 S1-
LCSD 880-50008/3-A	Lab Control Sample Dup	74	55 S1-
MB 880-50008/1-A	Method Blank	112	93
Surrogate Legend			
1CO = 1-Chlorooctane			

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery
OTPH = o-Terphenyl

Job ID: 890-4291-1
SDG: 03C1558184

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- 8
- 9
- 10
- 11
- 12
- 13
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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49091/5-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49091

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/21/23 09:28	03/21/23 12:45	1
1,4-Difluorobenzene (Surr)	75		70 - 130	03/21/23 09:28	03/21/23 12:45	1

Lab Sample ID: LCS 880-49091/1-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1194		mg/Kg		119	70 - 130
Toluene	0.100	0.1068		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.09680		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	0.100	0.09948		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-49091/2-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49091

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09058		mg/Kg		91	70 - 130	27	35
Toluene	0.100	0.09286		mg/Kg		93	70 - 130	14	35
Ethylbenzene	0.100	0.08533		mg/Kg		85	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1771		mg/Kg		89	70 - 130	14	35
o-Xylene	0.100	0.08571		mg/Kg		86	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-25818-A-41-H MS

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1144		mg/Kg		115	70 - 130
Toluene	<0.00200	U	0.0998	0.09361		mg/Kg		94	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: 880-25818-A-41-H MS

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49091

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.08188		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1678		mg/Kg		84	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08195		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-25818-A-41-I MSD

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49091

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09845		mg/Kg		99	70 - 130	15	35
Toluene	<0.00200	U	0.0990	0.09627		mg/Kg		97	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0990	0.09632		mg/Kg		97	70 - 130	16	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2106		mg/Kg		106	70 - 130	23	35
o-Xylene	<0.00200	U	0.0990	0.1022		mg/Kg		103	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-49111/5-A

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 11:42	03/22/23 11:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/21/23 11:42	03/22/23 11:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 11:42	03/22/23 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/21/23 11:42	03/22/23 11:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 11:42	03/22/23 11:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/21/23 11:42	03/22/23 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	03/21/23 11:42	03/22/23 11:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/21/23 11:42	03/22/23 11:54	1

Lab Sample ID: LCS 880-49111/1-A

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08522		mg/Kg		85	70 - 130
Toluene	0.100	0.08605		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08173		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1709		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-49111/1-A

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08369		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-49111/2-A

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49111

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09598		mg/Kg		96	70 - 130	12	35
Toluene	0.100	0.09262		mg/Kg		93	70 - 130	7	35
Ethylbenzene	0.100	0.09865		mg/Kg		99	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2179		mg/Kg		109	70 - 130	24	35
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130	25	35

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

Lab Sample ID: 890-4348-A-2-D MS

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08183		mg/Kg		81	70 - 130
Toluene	<0.00201	U	0.100	0.07969		mg/Kg		79	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.07120		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1525		mg/Kg		76	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.07468		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-4348-A-2-E MSD

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49111

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.06959		mg/Kg		70	70 - 130	16	35
Toluene	<0.00201	U	0.0990	0.06890		mg/Kg		70	70 - 130	15	35
Ethylbenzene	<0.00201	U F1	0.0990	0.05778	F1	mg/Kg		58	70 - 130	21	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1222	F1	mg/Kg		62	70 - 130	22	35
o-Xylene	<0.00201	U F1	0.0990	0.05874	F1	mg/Kg		59	70 - 130	24	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: 890-4348-A-2-E MSD

Matrix: Solid

Analysis Batch: 49163

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49111

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-49192/5-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49192

Analyte	MB	MB							
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/23 11:22	03/24/23 06:00	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	84		70 - 130	03/22/23 11:22	03/24/23 06:00	1			
1,4-Difluorobenzene (Surr)	86		70 - 130	03/22/23 11:22	03/24/23 06:00	1			

Lab Sample ID: LCS 880-49192/1-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1011		mg/Kg		101	70 - 130		
Toluene	0.100	0.09904		mg/Kg		99	70 - 130		
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene	0.200	0.2422		mg/Kg		121	70 - 130		
o-Xylene	0.100	0.1268		mg/Kg		127	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-49192/2-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08464		mg/Kg		85	70 - 130	18	35	
Toluene	0.100	0.09054		mg/Kg		91	70 - 130	9	35	
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130	10	35	
o-Xylene	0.100	0.1144		mg/Kg		114	70 - 130	10	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: LCSD 880-49192/2-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49192

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

Lab Sample ID: 880-26165-A-1-H MS

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.07995		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0998	0.08505		mg/Kg		85	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.09468		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2072		mg/Kg		104	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1061		mg/Kg		106	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-26165-A-1-I MSD

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49192

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.07931		mg/Kg		80	70 - 130	1	35
Toluene	<0.00201	U	0.0990	0.08058		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0990	0.09423		mg/Kg		95	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2060		mg/Kg		104	70 - 130	1	35
o-Xylene	<0.00201	U	0.0990	0.1055		mg/Kg		107	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-49328/5-A

Matrix: Solid

Analysis Batch: 49344

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49328

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:13	03/23/23 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/23 13:13	03/23/23 19:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/23 13:13	03/23/23 19:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/23 13:13	03/23/23 19:27	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	78		70 - 130	03/23/23 13:13	03/23/23 19:27	1		
1,4-Difluorobenzene (Surr)	79		70 - 130	03/23/23 13:13	03/23/23 19:27	1		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-50008/1-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50008

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/31/23 09:22	04/01/23 08:55	1
o-Terphenyl	93		70 - 130	03/31/23 09:22	04/01/23 08:55	1

Lab Sample ID: LCS 880-50008/2-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	802.6		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	815.4		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	65	S1-	70 - 130

Lab Sample ID: LCSD 880-50008/3-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.3		mg/Kg		90	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	737.3		mg/Kg		74	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	55	S1-	70 - 130

Lab Sample ID: 880-26493-A-1-B MS

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1194		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	821.4		mg/Kg		79	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

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

Lab Sample ID: 880-26493-A-1-B MS

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50008

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 880-26493-A-1-C MSD

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1191		mg/Kg		119	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	846.7		mg/Kg		81	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48958/1-A

Matrix: Solid

Analysis Batch: 48960

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/20/23 11:11	1

Lab Sample ID: LCS 880-48958/2-A

Matrix: Solid

Analysis Batch: 48960

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.7		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-48958/3-A

Matrix: Solid

Analysis Batch: 48960

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4291-4 MS

Matrix: Solid

Analysis Batch: 48960

Client Sample ID: SS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	98.2		252	343.9		mg/Kg		97	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4291-4 MSD							Client Sample ID: SS04					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 48960												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	98.2		252	344.4		mg/Kg		98	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

GC VOA

Analysis Batch: 49077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8021B	49091
890-4291-2	SS02	Total/NA	Solid	8021B	49091
890-4291-4	SS04	Total/NA	Solid	8021B	49091
890-4291-5	SS09	Total/NA	Solid	8021B	49091
890-4291-6	SS10	Total/NA	Solid	8021B	49091
890-4291-7	SS11	Total/NA	Solid	8021B	49091
890-4291-8	SS12	Total/NA	Solid	8021B	49091
MB 880-49091/5-A	Method Blank	Total/NA	Solid	8021B	49091
LCS 880-49091/1-A	Lab Control Sample	Total/NA	Solid	8021B	49091
LCSD 880-49091/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49091
880-25818-A-41-H MS	Matrix Spike	Total/NA	Solid	8021B	49091
880-25818-A-41-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49091

Prep Batch: 49091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	5035	
890-4291-2	SS02	Total/NA	Solid	5035	
890-4291-4	SS04	Total/NA	Solid	5035	
890-4291-5	SS09	Total/NA	Solid	5035	
890-4291-6	SS10	Total/NA	Solid	5035	
890-4291-7	SS11	Total/NA	Solid	5035	
890-4291-8	SS12	Total/NA	Solid	5035	
MB 880-49091/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49091/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49091/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25818-A-41-H MS	Matrix Spike	Total/NA	Solid	5035	
880-25818-A-41-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 49111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-3	SS03	Total/NA	Solid	5035	
MB 880-49111/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49111/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49111/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4348-A-2-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4348-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-3	SS03	Total/NA	Solid	8021B	49111
MB 880-49111/5-A	Method Blank	Total/NA	Solid	8021B	49111
LCS 880-49111/1-A	Lab Control Sample	Total/NA	Solid	8021B	49111
LCSD 880-49111/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49111
890-4348-A-2-D MS	Matrix Spike	Total/NA	Solid	8021B	49111
890-4348-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49111

Prep Batch: 49192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	5035	
MB 880-49192/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49192/1-A	Lab Control Sample	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

GC VOA (Continued)

Prep Batch: 49192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49192/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26165-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-26165-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 49328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49328/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8021B	49192
MB 880-49192/5-A	Method Blank	Total/NA	Solid	8021B	49192
MB 880-49328/5-A	Method Blank	Total/NA	Solid	8021B	49328
LCS 880-49192/1-A	Lab Control Sample	Total/NA	Solid	8021B	49192
LCSD 880-49192/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49192
880-26165-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	49192
880-26165-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49192

Analysis Batch: 49455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	Total BTEX	
890-4291-2	SS02	Total/NA	Solid	Total BTEX	
890-4291-3	SS03	Total/NA	Solid	Total BTEX	
890-4291-4	SS04	Total/NA	Solid	Total BTEX	
890-4291-5	SS09	Total/NA	Solid	Total BTEX	
890-4291-6	SS10	Total/NA	Solid	Total BTEX	
890-4291-7	SS11	Total/NA	Solid	Total BTEX	
890-4291-8	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8015B NM	48614
890-4291-2	SS02	Total/NA	Solid	8015B NM	48614
890-4291-3	SS03	Total/NA	Solid	8015B NM	48614
890-4291-4	SS04	Total/NA	Solid	8015B NM	48614
890-4291-6	SS10	Total/NA	Solid	8015B NM	48614
890-4291-7	SS11	Total/NA	Solid	8015B NM	48614
890-4291-8	SS12	Total/NA	Solid	8015B NM	48614

Prep Batch: 48613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8015NM Prep	
890-4291-2	SS02	Total/NA	Solid	8015NM Prep	

Prep Batch: 48614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8015NM Prep	
890-4291-2	SS02	Total/NA	Solid	8015NM Prep	
890-4291-3	SS03	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

GC Semi VOA (Continued)

Prep Batch: 48614 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-4	SS04	Total/NA	Solid	8015NM Prep	
890-4291-6	SS10	Total/NA	Solid	8015NM Prep	
890-4291-7	SS11	Total/NA	Solid	8015NM Prep	
890-4291-8	SS12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8015B NM	48613
890-4291-2	SS02	Total/NA	Solid	8015B NM	48613

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Total/NA	Solid	8015 NM	
890-4291-2	SS02	Total/NA	Solid	8015 NM	
890-4291-3	SS03	Total/NA	Solid	8015 NM	
890-4291-4	SS04	Total/NA	Solid	8015 NM	
890-4291-5	SS09	Total/NA	Solid	8015 NM	
890-4291-6	SS10	Total/NA	Solid	8015 NM	
890-4291-7	SS11	Total/NA	Solid	8015 NM	
890-4291-8	SS12	Total/NA	Solid	8015 NM	

Prep Batch: 50008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-5	SS09	Total/NA	Solid	8015NM Prep	
MB 880-50008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26493-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26493-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-5	SS09	Total/NA	Solid	8015B NM	50008
MB 880-50008/1-A	Method Blank	Total/NA	Solid	8015B NM	50008
LCS 880-50008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50008
LCSD 880-50008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50008
880-26493-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50008
880-26493-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50008

HPLC/IC

Leach Batch: 48958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Soluble	Solid	DI Leach	
890-4291-2	SS02	Soluble	Solid	DI Leach	
890-4291-3	SS03	Soluble	Solid	DI Leach	
890-4291-4	SS04	Soluble	Solid	DI Leach	
890-4291-5	SS09	Soluble	Solid	DI Leach	
890-4291-6	SS10	Soluble	Solid	DI Leach	
890-4291-7	SS11	Soluble	Solid	DI Leach	
890-4291-8	SS12	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

HPLC/IC (Continued)

Leach Batch: 48958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48958/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48958/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48958/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4291-4 MS	SS04	Soluble	Solid	DI Leach	
890-4291-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 48960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4291-1	SS01	Soluble	Solid	300.0	48958
890-4291-2	SS02	Soluble	Solid	300.0	48958
890-4291-3	SS03	Soluble	Solid	300.0	48958
890-4291-4	SS04	Soluble	Solid	300.0	48958
890-4291-5	SS09	Soluble	Solid	300.0	48958
890-4291-6	SS10	Soluble	Solid	300.0	48958
890-4291-7	SS11	Soluble	Solid	300.0	48958
890-4291-8	SS12	Soluble	Solid	300.0	48958
MB 880-48958/1-A	Method Blank	Soluble	Solid	300.0	48958
LCS 880-48958/2-A	Lab Control Sample	Soluble	Solid	300.0	48958
LCSD 880-48958/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48958
890-4291-4 MS	SS04	Soluble	Solid	300.0	48958
890-4291-4 MSD	SS04	Soluble	Solid	300.0	48958

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS01

Date Collected: 03/10/23 10:40

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	49077	03/21/23 17:13	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	49192	03/22/23 11:22	MNR	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	49344	03/24/23 11:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48613	03/14/23 13:39	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48703	03/17/23 04:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 00:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 12:29	SMC	EET MID

Client Sample ID: SS02

Date Collected: 03/10/23 10:45

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48613	03/14/23 13:39	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48703	03/17/23 05:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 12:33	SMC	EET MID

Client Sample ID: SS03

Date Collected: 03/10/23 11:15

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49111	03/21/23 11:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49163	03/22/23 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 02:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 12:38	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS04

Date Collected: 03/10/23 11:20

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 02:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 12:43	SMC	EET MID

Client Sample ID: SS09

Date Collected: 03/10/23 12:55

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50008	03/24/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 12:58	SMC	EET MID

Client Sample ID: SS10

Date Collected: 03/10/23 13:00

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 19:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 13:02	SMC	EET MID

Client Sample ID: SS11

Date Collected: 03/10/23 13:05

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Client Sample ID: SS11

Date Collected: 03/10/23 13:05

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 03:34	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48960	03/20/23 13:17	SMC	EET MID

Client Sample ID: SS12

Date Collected: 03/10/23 13:10

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4291-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49091	03/21/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/21/23 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49455	03/24/23 15:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 03:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48958	03/20/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48960	03/20/23 13:22	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum

Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1

SDG: 03C1558184

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4291-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4291-1	SS01	Solid	03/10/23 10:40	03/10/23 16:30	0.5'
890-4291-2	SS02	Solid	03/10/23 10:45	03/10/23 16:30	0.5'
890-4291-3	SS03	Solid	03/10/23 11:15	03/10/23 16:30	0.5'
890-4291-4	SS04	Solid	03/10/23 11:20	03/10/23 16:30	0.5'
890-4291-5	SS09	Solid	03/10/23 12:55	03/10/23 16:30	0.5'
890-4291-6	SS10	Solid	03/10/23 13:00	03/10/23 16:30	0.5'
890-4291-7	SS11	Solid	03/10/23 13:05	03/10/23 16:30	0.5'
890-4291-8	SS12	Solid	03/10/23 13:10	03/10/23 16:30	0.5'



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1236
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No.:

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

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

Project Name:	PLU 28 Big Sinks East Battery	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	03C1558184	☒ Routine ☐ Rush				None: NO DI Water: H ₂ O
Project Location:		Due Date:				Cool: Cool MeOH: Me
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
PO #:						H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No		H ₃ PO ₄ : HP
	Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:			NaHSO ₄ : NABIS
	Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:			Na ₂ S ₂ O ₃ : NaSO ₃
	Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:			Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:				NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	S	3/10/23	1040	.5'	G	1				Incident ID: nAPP2300343390
SS02	S		1045	.5'		1				Cost Center: 2191961001
SS03	F		11:15	.5'		1				
SS04	F		11:20	.5'		1				
SS09	F		12:55	.5'		1				
SS10			1:00	.5'		1				
SS11			1:05	.5'		1				
SS12			1:10	.5'		1				

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	<i>Ambera Stutz</i>	3/10/23 1630			
1					
3					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4291-1

SDG Number: 03C1558184

Login Number: 4291

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4291-1

SDG Number: 03C1558184

Login Number: 4291

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/14/23 11:33 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 4:53:38 PM Revision 1

JOB DESCRIPTION

PLU 28 Big Sinks East Battery
SDG NUMBER 03C1558184

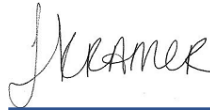
JOB NUMBER

890-4292-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

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

Generated
4/3/2023 4:53:38 PM
Revision 1

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Laboratory Job ID: 890-4292-1
SDG: 03C1558184

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Job ID: 890-4292-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4292-1

REVISION

The report being provided is a revision of the original report sent on 3/22/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

Report revision history

Receipt

The samples were received on 3/10/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS05 (890-4292-1), SS06 (890-4292-2), SS07 (890-4292-3) and SS08 (890-4292-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-50008/2-A) and (LCSD 880-50008/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS05

Lab Sample ID: 890-4292-1

Date Collected: 03/10/23 11:45

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/20/23 11:36	03/22/23 07:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/20/23 11:36	03/22/23 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/20/23 11:36	03/22/23 07:17	1
1,4-Difluorobenzene (Surr)	72		70 - 130	03/20/23 11:36	03/22/23 07:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.9		49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 17:00	04/01/23 18:52	1
Diesel Range Organics (Over C10-C28)	69.9		49.9	mg/Kg		03/24/23 17:00	04/01/23 18:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 17:00	04/01/23 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/24/23 17:00	04/01/23 18:52	1
o-Terphenyl	75		70 - 130	03/24/23 17:00	04/01/23 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.82		5.04	mg/Kg			03/19/23 03:03	1

Client Sample ID: SS06

Lab Sample ID: 890-4292-2

Date Collected: 03/10/23 11:55

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/20/23 11:36	03/22/23 07:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 07:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/20/23 11:36	03/22/23 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	03/20/23 11:36	03/22/23 07:37	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS06

Lab Sample ID: 890-4292-2

Date Collected: 03/10/23 11:55

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	03/20/23 11:36	03/22/23 07:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.8		50.0	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 17:00	04/01/23 19:14	1
Diesel Range Organics (Over C10-C28)	97.8		50.0	mg/Kg		03/24/23 17:00	04/01/23 19:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 17:00	04/01/23 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/24/23 17:00	04/01/23 19:14	1
o-Terphenyl	76		70 - 130			03/24/23 17:00	04/01/23 19:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.20		4.98	mg/Kg			03/19/23 03:08	1

Client Sample ID: SS07

Lab Sample ID: 890-4292-3

Date Collected: 03/10/23 12:05

Matrix: Solid

Date Received: 03/10/23 16:30

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/20/23 11:36	03/22/23 07:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/20/23 11:36	03/22/23 07:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/20/23 11:36	03/22/23 07:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/20/23 11:36	03/22/23 07:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/20/23 11:36	03/22/23 07:58	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/20/23 11:36	03/22/23 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	03/20/23 11:36	03/22/23 07:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/20/23 11:36	03/22/23 07:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/21/23 09:53	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS07

Date Collected: 03/10/23 12:05

Date Received: 03/10/23 16:30

Sample Depth: 0.5

Lab Sample ID: 890-4292-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 05:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 05:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/23 13:44	03/15/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			03/14/23 13:44	03/15/23 05:02	1
o-Terphenyl	105		70 - 130			03/14/23 13:44	03/15/23 05:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03	mg/Kg			03/19/23 03:13	1

Client Sample ID: SS08

Date Collected: 03/10/23 12:15

Date Received: 03/10/23 16:30

Sample Depth: 0.5

Lab Sample ID: 890-4292-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/20/23 11:36	03/22/23 08:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			03/20/23 11:36	03/22/23 08:18	1
1,4-Difluorobenzene (Surr)	84		70 - 130			03/20/23 11:36	03/22/23 08:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/22/23 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/21/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 05:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 05:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/23 13:44	03/15/23 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			03/14/23 13:44	03/15/23 05:24	1
o-Terphenyl	119		70 - 130			03/14/23 13:44	03/15/23 05:24	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS08
Date Collected: 03/10/23 12:15
Date Received: 03/10/23 16:30
Sample Depth: 0.5

Lab Sample ID: 890-4292-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/19/23 03:18	1

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

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4290-A-3-D MS	Matrix Spike	128	94
890-4290-A-3-E MSD	Matrix Spike Duplicate	124	93
890-4292-1	SS05	91	72
890-4292-2	SS06	90	79
890-4292-3	SS07	81	82
890-4292-4	SS08	80	84
LCS 880-48984/1-A	Lab Control Sample	121	102
LCSD 880-48984/2-A	Lab Control Sample Dup	119	90
MB 880-48984/5-A	Method Blank	75	82
MB 880-49091/5-A	Method Blank	72	75

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26493-A-1-B MS	Matrix Spike	111	76
880-26493-A-1-C MSD	Matrix Spike Duplicate	116	77
890-4292-1	SS05	100	75
890-4292-2	SS06	98	76
890-4292-3	SS07	94	105
890-4292-4	SS08	108	119
LCS 880-50008/2-A	Lab Control Sample	86	65 S1-
LCSD 880-50008/3-A	Lab Control Sample Dup	74	55 S1-
MB 880-50008/1-A	Method Blank	112	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48984/5-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48984

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 00:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/20/23 11:36	03/22/23 00:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/20/23 11:36	03/22/23 00:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/20/23 11:36	03/22/23 00:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	03/20/23 11:36	03/22/23 00:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/20/23 11:36	03/22/23 00:23	1

Lab Sample ID: LCS 880-48984/1-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09595		mg/Kg		96	70 - 130
Toluene	0.100	0.09660		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2320		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1173		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-48984/2-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48984

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09375		mg/Kg		94	70 - 130	2	35
Toluene	0.100	0.09803		mg/Kg		98	70 - 130	1	35
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2387		mg/Kg		119	70 - 130	3	35
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-4290-A-3-D MS

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.07354		mg/Kg		73	70 - 130
Toluene	<0.00199	U	0.101	0.07910		mg/Kg		78	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

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

Lab Sample ID: 890-4290-A-3-D MS

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.09230		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1982		mg/Kg		98	70 - 130
o-Xylene	<0.00199	U	0.101	0.09868		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-4290-A-3-E MSD

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.07219		mg/Kg		72	70 - 130	2	35
Toluene	<0.00199	U	0.0996	0.08061		mg/Kg		81	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.0996	0.09368		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1996		mg/Kg		100	70 - 130	1	35
o-Xylene	<0.00199	U	0.0996	0.09918		mg/Kg		99	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-49091/5-A

Matrix: Solid

Analysis Batch: 49077

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49091

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/21/23 09:28	03/21/23 12:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/21/23 09:28	03/21/23 12:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/21/23 09:28	03/21/23 12:45	1
1,4-Difluorobenzene (Surr)	75		70 - 130	03/21/23 09:28	03/21/23 12:45	1

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

Lab Sample ID: MB 880-50008/1-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50008

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-50008/1-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50008

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/31/23 09:22	04/01/23 08:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			03/31/23 09:22	04/01/23 08:55	1
o-Terphenyl	93		70 - 130			03/31/23 09:22	04/01/23 08:55	1

Lab Sample ID: LCS 880-50008/2-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	802.6		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	815.4		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	86		70 - 130				
o-Terphenyl	65	S1-	70 - 130				

Lab Sample ID: LCSD 880-50008/3-A

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.3		mg/Kg		90	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	737.3		mg/Kg		74	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	74		70 - 130						
o-Terphenyl	55	S1-	70 - 130						

Lab Sample ID: 880-26493-A-1-B MS

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1194		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	821.4		mg/Kg		79	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	76		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

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

Lab Sample ID: 880-26493-A-1-C MSD

Matrix: Solid

Analysis Batch: 50075

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50008

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1191		mg/Kg		119	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	846.7		mg/Kg		81	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	77		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48842/1-A

Matrix: Solid

Analysis Batch: 49034

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/19/23 00:53	1

Lab Sample ID: LCS 880-48842/2-A

Matrix: Solid

Analysis Batch: 49034

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.0		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-48842/3-A

Matrix: Solid

Analysis Batch: 49034

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	262.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-25980-A-5-C MS

Matrix: Solid

Analysis Batch: 49034

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	668		1260	2013		mg/Kg		107	90 - 110

Lab Sample ID: 880-25980-A-5-D MSD

Matrix: Solid

Analysis Batch: 49034

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	668		1260	2000		mg/Kg		106	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

GC VOA

Prep Batch: 48984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	5035	
890-4292-2	SS06	Total/NA	Solid	5035	
890-4292-3	SS07	Total/NA	Solid	5035	
890-4292-4	SS08	Total/NA	Solid	5035	
MB 880-48984/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48984/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48984/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4290-A-3-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4290-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	8021B	48984
890-4292-2	SS06	Total/NA	Solid	8021B	48984
890-4292-3	SS07	Total/NA	Solid	8021B	48984
890-4292-4	SS08	Total/NA	Solid	8021B	48984
MB 880-48984/5-A	Method Blank	Total/NA	Solid	8021B	48984
MB 880-49091/5-A	Method Blank	Total/NA	Solid	8021B	49091
LCS 880-48984/1-A	Lab Control Sample	Total/NA	Solid	8021B	48984
LCSD 880-48984/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48984
890-4290-A-3-D MS	Matrix Spike	Total/NA	Solid	8021B	48984
890-4290-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48984

Prep Batch: 49091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49091/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	Total BTEX	
890-4292-2	SS06	Total/NA	Solid	Total BTEX	
890-4292-3	SS07	Total/NA	Solid	Total BTEX	
890-4292-4	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 48566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-3	SS07	Total/NA	Solid	8015B NM	48614
890-4292-4	SS08	Total/NA	Solid	8015B NM	48614

Prep Batch: 48614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-3	SS07	Total/NA	Solid	8015NM Prep	
890-4292-4	SS08	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	8015 NM	
890-4292-2	SS06	Total/NA	Solid	8015 NM	
890-4292-3	SS07	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 49094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-4	SS08	Total/NA	Solid	8015 NM	

Prep Batch: 50008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	8015NM Prep	
890-4292-2	SS06	Total/NA	Solid	8015NM Prep	
MB 880-50008/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50008/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26493-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26493-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Total/NA	Solid	8015B NM	50008
890-4292-2	SS06	Total/NA	Solid	8015B NM	50008
MB 880-50008/1-A	Method Blank	Total/NA	Solid	8015B NM	50008
LCS 880-50008/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50008
LCSD 880-50008/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50008
880-26493-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50008
880-26493-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50008

HPLC/IC

Leach Batch: 48842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Soluble	Solid	DI Leach	
890-4292-2	SS06	Soluble	Solid	DI Leach	
890-4292-3	SS07	Soluble	Solid	DI Leach	
890-4292-4	SS08	Soluble	Solid	DI Leach	
MB 880-48842/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48842/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48842/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25980-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25980-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 49034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4292-1	SS05	Soluble	Solid	300.0	48842
890-4292-2	SS06	Soluble	Solid	300.0	48842
890-4292-3	SS07	Soluble	Solid	300.0	48842
890-4292-4	SS08	Soluble	Solid	300.0	48842
MB 880-48842/1-A	Method Blank	Soluble	Solid	300.0	48842
LCS 880-48842/2-A	Lab Control Sample	Soluble	Solid	300.0	48842
LCSD 880-48842/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48842
880-25980-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	48842
880-25980-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48842

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS05

Lab Sample ID: 890-4292-1

Date Collected: 03/10/23 11:45

Matrix: Solid

Date Received: 03/10/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 07:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50008	03/24/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 18:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48842	03/17/23 12:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49034	03/19/23 03:03	SMC	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-4292-2

Date Collected: 03/10/23 11:55

Matrix: Solid

Date Received: 03/10/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50008	03/24/23 17:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50075	04/01/23 19:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48842	03/17/23 12:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49034	03/19/23 03:08	SMC	EET MID

Client Sample ID: SS07

Lab Sample ID: 890-4292-3

Date Collected: 03/10/23 12:05

Matrix: Solid

Date Received: 03/10/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 07:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 05:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	48842	03/17/23 12:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49034	03/19/23 03:13	SMC	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-4292-4

Date Collected: 03/10/23 12:15

Matrix: Solid

Date Received: 03/10/23 16:30

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	48984	03/20/23 11:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49077	03/22/23 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49220	03/22/23 15:38	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Client Sample ID: SS08

Date Collected: 03/10/23 12:15

Date Received: 03/10/23 16:30

Lab Sample ID: 890-4292-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49094	03/21/23 09:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48614	03/14/23 13:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48566	03/15/23 05:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48842	03/17/23 12:32	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49034	03/19/23 03:18	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum

Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1

SDG: 03C1558184

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4292-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4292-1	SS05	Solid	03/10/23 11:45	03/10/23 16:30	0.5
890-4292-2	SS06	Solid	03/10/23 11:55	03/10/23 16:30	0.5
890-4292-3	SS07	Solid	03/10/23 12:05	03/10/23 16:30	0.5
890-4292-4	SS08	Solid	03/10/23 12:15	03/10/23 16:30	0.5

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Environment Testing
Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page _____ of _____

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

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

Project Name:	PLU 28 Big Sinks East Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558184	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Connor Whitman				
PO #:					
SAMPLE RECEIPT		Temp Blank: ☒ No ☐ Yes	Thermometer ID: ☒ No ☐ Yes	Wet Ice: ☒ No ☐ Yes	
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:			
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:			
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:			
Total Containers:					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
5505	S	3/10/23	11:45	.5'	1
5506	S		11:55	.5'	1
5507	S		12:05	.5'	1
5508	S		12:15	.5'	1
CHLORIDES (EPA: 300.0)					
TPH (8015)					
BTEX (8021)					
ANALYSIS REQUEST					
PRESERVATIVE CODES					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					
Sample Comments					
Incident ID: nAPP2300343390					
Cost Center: 2191961001					
AFE:					



890-4292 Chain of Custody

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>CHH</i>	<i>Aracela Hurt</i>	3/10/23 16:30			
3		4			
5		6			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4292-1

SDG Number: 03C1558184

Login Number: 4292

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	Refer to job narrative
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4292-1

SDG Number: 03C1558184

Login Number: 4292**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 03/14/23 11:33 AM**

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/30/2023 2:27:52 PM

JOB DESCRIPTION

PLU 28 Big Sinks East Battery
SDG NUMBER 03C1558184

JOB NUMBER

890-4354-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

Generated
3/30/2023 2:27:52 PM

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

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Laboratory Job ID: 890-4354-1
SDG: 03C1558184

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Job ID: 890-4354-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4354-1****Receipt**

The samples were received on 3/17/2023 3:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4354-1), PH01A (890-4354-2), PH01B (890-4354-3), PH02 (890-4354-4), PH02A (890-4354-5), PH03 (890-4354-6), PH03A (890-4354-7), PH04 (890-4354-8) and PH04A (890-4354-9).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-49653/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-49653 and analytical batch 880-49792 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: (MB 880-49383/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH01

Lab Sample ID: 890-4354-1

Date Collected: 03/17/23 11:15

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U *- *1	0.0399	mg/Kg		03/27/23 14:59	03/29/23 21:53	20
Toluene	0.331	*1	0.0399	mg/Kg		03/27/23 14:59	03/29/23 21:53	20
Ethylbenzene	0.998	*+ *1	0.0399	mg/Kg		03/27/23 14:59	03/29/23 21:53	20
m-Xylene & p-Xylene	10.1	*- *1	0.0798	mg/Kg		03/27/23 14:59	03/29/23 21:53	20
o-Xylene	2.67	*+ *1	0.0399	mg/Kg		03/27/23 14:59	03/29/23 21:53	20
Xylenes, Total	12.8		0.0798	mg/Kg		03/27/23 14:59	03/29/23 21:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/27/23 14:59	03/29/23 21:53	20
1,4-Difluorobenzene (Surr)	76		70 - 130	03/27/23 14:59	03/29/23 21:53	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.1		0.0798	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3170		49.9	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	744		49.9	mg/Kg		03/24/23 09:41	03/26/23 17:16	1
Diesel Range Organics (Over C10-C28)	2250		49.9	mg/Kg		03/24/23 09:41	03/26/23 17:16	1
Oil Range Organics (Over C28-C36)	174		49.9	mg/Kg		03/24/23 09:41	03/26/23 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	03/24/23 09:41	03/26/23 17:16	1
o-Terphenyl	102		70 - 130	03/24/23 09:41	03/26/23 17:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.95	mg/Kg			03/29/23 22:24	1

Client Sample ID: PH01A

Lab Sample ID: 890-4354-2

Date Collected: 03/17/23 11:25

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *- *1	0.00202	mg/Kg		03/27/23 14:59	03/29/23 19:10	1
Toluene	0.00375	*1	0.00202	mg/Kg		03/27/23 14:59	03/29/23 19:10	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		03/27/23 14:59	03/29/23 19:10	1
m-Xylene & p-Xylene	0.00547	*- *1	0.00404	mg/Kg		03/27/23 14:59	03/29/23 19:10	1
o-Xylene	<0.00202	U *- *1	0.00202	mg/Kg		03/27/23 14:59	03/29/23 19:10	1
Xylenes, Total	0.00547		0.00404	mg/Kg		03/27/23 14:59	03/29/23 19:10	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH01A

Lab Sample ID: 890-4354-2

Date Collected: 03/17/23 11:25

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/27/23 14:59	03/29/23 19:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/27/23 14:59	03/29/23 19:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00922		0.00404	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 17:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 17:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	03/24/23 09:41	03/26/23 17:39	1
o-Terphenyl	92		70 - 130	03/24/23 09:41	03/26/23 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6		4.96	mg/Kg			03/29/23 22:28	1

Client Sample ID: PH02

Lab Sample ID: 890-4354-4

Date Collected: 03/17/23 11:40

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:30	1
Toluene	<0.00199	U *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:30	1
Ethylbenzene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:30	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		03/27/23 14:59	03/29/23 19:30	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/27/23 14:59	03/29/23 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/27/23 14:59	03/29/23 19:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/27/23 14:59	03/29/23 19:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/27/23 11:32	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH02

Lab Sample ID: 890-4354-4

Date Collected: 03/17/23 11:40

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 18:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			03/24/23 09:41	03/26/23 18:01	1
o-Terphenyl	96		70 - 130			03/24/23 09:41	03/26/23 18:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.1		5.00	mg/Kg			03/29/23 22:43	1

Client Sample ID: PH02A

Lab Sample ID: 890-4354-5

Date Collected: 03/17/23 11:50

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
Toluene	<0.00199	U *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
Ethylbenzene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/27/23 14:59	03/29/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/27/23 14:59	03/29/23 19:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130			03/27/23 14:59	03/29/23 19:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 18:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/24/23 09:41	03/26/23 18:23	1
o-Terphenyl	98		70 - 130			03/24/23 09:41	03/26/23 18:23	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH02A

Lab Sample ID: 890-4354-5

Date Collected: 03/17/23 11:50

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00	mg/Kg			03/29/23 22:48	1

Client Sample ID: PH03

Lab Sample ID: 890-4354-6

Date Collected: 03/17/23 10:10

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
Toluene	<0.00200	U *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
Ethylbenzene	<0.00200	U *+ *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
m-Xylene & p-Xylene	<0.00399	U *1	0.00399	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/27/23 14:59	03/29/23 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/27/23 14:59	03/29/23 20:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130			03/27/23 14:59	03/29/23 20:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.1		49.9	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 18:45	1
Diesel Range Organics (Over C10-C28)	81.1		49.9	mg/Kg		03/24/23 09:41	03/26/23 18:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/24/23 09:41	03/26/23 18:45	1
o-Terphenyl	92		70 - 130			03/24/23 09:41	03/26/23 18:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		5.00	mg/Kg			03/29/23 22:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH03A

Lab Sample ID: 890-4354-7

Date Collected: 03/17/23 10:15

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
Toluene	<0.00199	U *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
Ethylbenzene	<0.00199	U ** *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
o-Xylene	<0.00199	U ** *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/27/23 14:59	03/29/23 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/27/23 14:59	03/29/23 20:32	1
1,4-Difluorobenzene (Surr)	106		70 - 130			03/27/23 14:59	03/29/23 20:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.0		49.9	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 19:07	1
Diesel Range Organics (Over C10-C28)	91.0		49.9	mg/Kg		03/24/23 09:41	03/26/23 19:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 09:41	03/26/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			03/24/23 09:41	03/26/23 19:07	1
o-Terphenyl	89		70 - 130			03/24/23 09:41	03/26/23 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7		5.04	mg/Kg			03/29/23 22:57	1

Client Sample ID: PH04

Lab Sample ID: 890-4354-8

Date Collected: 03/17/23 12:05

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *- *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
Toluene	<0.00200	U *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
Ethylbenzene	<0.00200	U ** *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
m-Xylene & p-Xylene	<0.00401	U *- *1	0.00401	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
o-Xylene	<0.00200	U ** *1	0.00200	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/27/23 14:59	03/29/23 20:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/27/23 14:59	03/29/23 20:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH04

Lab Sample ID: 890-4354-8

Date Collected: 03/17/23 12:05

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	03/27/23 14:59	03/29/23 20:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/27/23 11:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 19:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 19:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			03/24/23 09:41	03/26/23 19:29	1
o-Terphenyl	96		70 - 130			03/24/23 09:41	03/26/23 19:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.05	mg/Kg			03/29/23 23:02	1

Client Sample ID: PH04A

Lab Sample ID: 890-4354-9

Date Collected: 03/17/23 12:20

Matrix: Solid

Date Received: 03/17/23 15:41

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 21:13	1
Toluene	<0.00199	U *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 21:13	1
Ethylbenzene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 21:13	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		03/27/23 14:59	03/29/23 21:13	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/27/23 14:59	03/29/23 21:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/27/23 14:59	03/29/23 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/27/23 14:59	03/29/23 21:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/27/23 14:59	03/29/23 21:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/30/23 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	295		49.8	mg/Kg			03/27/23 11:32	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH04A
Date Collected: 03/17/23 12:20
Date Received: 03/17/23 15:41
Sample Depth: 4'

Lab Sample ID: 890-4354-9
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/24/23 09:41	03/27/23 06:40	1	
Diesel Range Organics (Over C10-C28)	243		49.8	mg/Kg		03/24/23 09:41	03/27/23 06:40	1	
Oil Range Organics (Over C28-C36)	52.4		49.8	mg/Kg		03/24/23 09:41	03/27/23 06:40	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	96		70 - 130			03/24/23 09:41	03/27/23 06:40	1	
o-Terphenyl	108		70 - 130			03/24/23 09:41	03/27/23 06:40	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	89.3		5.02	mg/Kg			03/29/23 23:07	1	

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BFB1	DFBZ1						
		(70-130)	(70-130)						
880-26164-A-1-B MS	Matrix Spike	100	112						
880-26164-A-1-C MSD	Matrix Spike Duplicate	102	114						
890-4354-1	PH01	94	76						
890-4354-2	PH01A	100	106						
890-4354-4	PH02	104	108						
890-4354-5	PH02A	97	105						
890-4354-6	PH03	102	105						
890-4354-7	PH03A	101	106						
890-4354-8	PH04	102	106						
890-4354-9	PH04A	100	106						
LCS 880-49653/1-A	Lab Control Sample	98	111						
LCSD 880-49653/2-A	Lab Control Sample Dup	40 S1-	102						
MB 880-49653/5-A	Method Blank	89	101						
Surrogate Legend									
BFB = 4-Bromofluorobenzene (Surr)									
DFBZ = 1,4-Difluorobenzene (Surr)									

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1	OTPH1								
		(70-130)	(70-130)								
890-4350-A-5-B MS	Matrix Spike	104	97								
890-4354-1	PH01	117	102								
890-4354-2	PH01A	88	92								
890-4354-4	PH02	87	96								
890-4354-5	PH02A	92	98								
890-4354-6	PH03	89	92								
890-4354-7	PH03A	85	89								
890-4354-8	PH04	91	96								
890-4354-9	PH04A	96	108								
LCS 880-49383/2-A	Lab Control Sample	111	119								
LCSD 880-49383/3-A	Lab Control Sample Dup	107	115								
MB 880-49383/1-A	Method Blank	121	139 S1+								
Surrogate Legend											
1CO = 1-Chlorooctane											
OTPH = o-Terphenyl											

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49653/5-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49653

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/27/23 14:59	03/29/23 13:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/27/23 14:59	03/29/23 13:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/27/23 14:59	03/29/23 13:26	1

Lab Sample ID: LCS 880-49653/1-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1099		mg/Kg		110	70 - 130
Toluene	0.100	0.1071		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.09751		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09611		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-49653/2-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49653

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.03864	*- *1	mg/Kg		39	70 - 130	96	35
Toluene	0.100	0.07087	*1	mg/Kg		71	70 - 130	41	35
Ethylbenzene	0.100	0.3961	*+ *1	mg/Kg		396	70 - 130	121	35
m-Xylene & p-Xylene	0.200	0.1305	*- *1	mg/Kg		65	70 - 130	39	35
o-Xylene	0.100	0.1666	*+ *1	mg/Kg		167	70 - 130	54	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	40	S1-	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-26164-A-1-B MS

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *- *1	0.100	0.1054		mg/Kg		105	70 - 130
Toluene	<0.00200	U *1	0.100	0.1029		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

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

Lab Sample ID: 880-26164-A-1-B MS

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U *+ *1	0.100	0.09252		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U *- *1	0.201	0.1817		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U *+ *1	0.100	0.09062		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-26164-A-1-C MSD

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49653

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U *- *1	0.0990	0.1097		mg/Kg		111	70 - 130	4	35
Toluene	<0.00200	U *1	0.0990	0.1072		mg/Kg		108	70 - 130	4	35
Ethylbenzene	<0.00200	U *+ *1	0.0990	0.09726		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U *- *1	0.198	0.1915		mg/Kg		97	70 - 130	5	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.09537		mg/Kg		96	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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

Lab Sample ID: MB 880-49383/1-A

Matrix: Solid

Analysis Batch: 49516

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49383

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 09:41	03/26/23 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	03/24/23 09:41	03/26/23 08:27	1
o-Terphenyl	139	S1+	70 - 130	03/24/23 09:41	03/26/23 08:27	1

Lab Sample ID: LCS 880-49383/2-A

Matrix: Solid

Analysis Batch: 49516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	971.5		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	868.0		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-49383/2-A

Matrix: Solid

Analysis Batch: 49516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49383

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-49383/3-A

Matrix: Solid

Analysis Batch: 49516

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49383

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	893.3		mg/Kg		89	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	752.9		mg/Kg		75	70 - 130	14	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-4350-A-5-B MS

Matrix: Solid

Analysis Batch: 49516

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	928.2		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1002		mg/Kg		98	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49797/1-A

Matrix: Solid

Analysis Batch: 49898

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/29/23 20:47	1

Lab Sample ID: LCS 880-49797/2-A

Matrix: Solid

Analysis Batch: 49898

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.4		mg/Kg		105	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-49797/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 49898											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.9		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-4349-A-8-E MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 49898											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.6		252	312.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-4349-A-8-G MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 49898											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.6		252	313.3		mg/Kg		110	90 - 110		

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

GC VOA

Prep Batch: 49653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	5035	
890-4354-2	PH01A	Total/NA	Solid	5035	
890-4354-4	PH02	Total/NA	Solid	5035	
890-4354-5	PH02A	Total/NA	Solid	5035	
890-4354-6	PH03	Total/NA	Solid	5035	
890-4354-7	PH03A	Total/NA	Solid	5035	
890-4354-8	PH04	Total/NA	Solid	5035	
890-4354-9	PH04A	Total/NA	Solid	5035	
MB 880-49653/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49653/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49653/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26164-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26164-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	8021B	49653
890-4354-2	PH01A	Total/NA	Solid	8021B	49653
890-4354-4	PH02	Total/NA	Solid	8021B	49653
890-4354-5	PH02A	Total/NA	Solid	8021B	49653
890-4354-6	PH03	Total/NA	Solid	8021B	49653
890-4354-7	PH03A	Total/NA	Solid	8021B	49653
890-4354-8	PH04	Total/NA	Solid	8021B	49653
890-4354-9	PH04A	Total/NA	Solid	8021B	49653
MB 880-49653/5-A	Method Blank	Total/NA	Solid	8021B	49653
LCS 880-49653/1-A	Lab Control Sample	Total/NA	Solid	8021B	49653
LCSD 880-49653/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49653
880-26164-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	49653
880-26164-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49653

Analysis Batch: 49962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	Total BTEX	
890-4354-2	PH01A	Total/NA	Solid	Total BTEX	
890-4354-4	PH02	Total/NA	Solid	Total BTEX	
890-4354-5	PH02A	Total/NA	Solid	Total BTEX	
890-4354-6	PH03	Total/NA	Solid	Total BTEX	
890-4354-7	PH03A	Total/NA	Solid	Total BTEX	
890-4354-8	PH04	Total/NA	Solid	Total BTEX	
890-4354-9	PH04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	8015NM Prep	
890-4354-2	PH01A	Total/NA	Solid	8015NM Prep	
890-4354-4	PH02	Total/NA	Solid	8015NM Prep	
890-4354-5	PH02A	Total/NA	Solid	8015NM Prep	
890-4354-6	PH03	Total/NA	Solid	8015NM Prep	
890-4354-7	PH03A	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

GC Semi VOA (Continued)

Prep Batch: 49383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-8	PH04	Total/NA	Solid	8015NM Prep	
890-4354-9	PH04A	Total/NA	Solid	8015NM Prep	
MB 880-49383/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49383/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4350-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	8015B NM	49383
890-4354-2	PH01A	Total/NA	Solid	8015B NM	49383
890-4354-4	PH02	Total/NA	Solid	8015B NM	49383
890-4354-5	PH02A	Total/NA	Solid	8015B NM	49383
890-4354-6	PH03	Total/NA	Solid	8015B NM	49383
890-4354-7	PH03A	Total/NA	Solid	8015B NM	49383
890-4354-8	PH04	Total/NA	Solid	8015B NM	49383
890-4354-9	PH04A	Total/NA	Solid	8015B NM	49383
MB 880-49383/1-A	Method Blank	Total/NA	Solid	8015B NM	49383
LCS 880-49383/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49383
LCSD 880-49383/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49383
890-4350-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49383

Analysis Batch: 49628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Total/NA	Solid	8015 NM	
890-4354-2	PH01A	Total/NA	Solid	8015 NM	
890-4354-4	PH02	Total/NA	Solid	8015 NM	
890-4354-5	PH02A	Total/NA	Solid	8015 NM	
890-4354-6	PH03	Total/NA	Solid	8015 NM	
890-4354-7	PH03A	Total/NA	Solid	8015 NM	
890-4354-8	PH04	Total/NA	Solid	8015 NM	
890-4354-9	PH04A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Soluble	Solid	DI Leach	
890-4354-2	PH01A	Soluble	Solid	DI Leach	
890-4354-4	PH02	Soluble	Solid	DI Leach	
890-4354-5	PH02A	Soluble	Solid	DI Leach	
890-4354-6	PH03	Soluble	Solid	DI Leach	
890-4354-7	PH03A	Soluble	Solid	DI Leach	
890-4354-8	PH04	Soluble	Solid	DI Leach	
890-4354-9	PH04A	Soluble	Solid	DI Leach	
MB 880-49797/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49797/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49797/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4349-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-4349-A-8-G MS	Matrix Spike	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

HPLC/IC

Analysis Batch: 49898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4354-1	PH01	Soluble	Solid	300.0	49797
890-4354-2	PH01A	Soluble	Solid	300.0	49797
890-4354-4	PH02	Soluble	Solid	300.0	49797
890-4354-5	PH02A	Soluble	Solid	300.0	49797
890-4354-6	PH03	Soluble	Solid	300.0	49797
890-4354-7	PH03A	Soluble	Solid	300.0	49797
890-4354-8	PH04	Soluble	Solid	300.0	49797
890-4354-9	PH04A	Soluble	Solid	300.0	49797
MB 880-49797/1-A	Method Blank	Soluble	Solid	300.0	49797
LCS 880-49797/2-A	Lab Control Sample	Soluble	Solid	300.0	49797
LCSD 880-49797/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49797
890-4349-A-8-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49797
890-4349-A-8-G MS	Matrix Spike	Soluble	Solid	300.0	49797

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH01

Lab Sample ID: 890-4354-1

Date Collected: 03/17/23 11:15

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	49792	03/29/23 21:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 17:16	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:24	SMC	EET MID

Client Sample ID: PH01A

Lab Sample ID: 890-4354-2

Date Collected: 03/17/23 11:25

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 17:39	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:28	SMC	EET MID

Client Sample ID: PH02

Lab Sample ID: 890-4354-4

Date Collected: 03/17/23 11:40

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 19:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 18:01	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:43	SMC	EET MID

Client Sample ID: PH02A

Lab Sample ID: 890-4354-5

Date Collected: 03/17/23 11:50

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 19:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH02A

Lab Sample ID: 890-4354-5

Date Collected: 03/17/23 11:50

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 18:23	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:48	SMC	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-4354-6

Date Collected: 03/17/23 10:10

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 20:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 18:45	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:53	SMC	EET MID

Client Sample ID: PH03A

Lab Sample ID: 890-4354-7

Date Collected: 03/17/23 10:15

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 20:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 19:07	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 22:57	SMC	EET MID

Client Sample ID: PH04

Lab Sample ID: 890-4354-8

Date Collected: 03/17/23 12:05

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 20:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/26/23 19:29	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Client Sample ID: PH04

Lab Sample ID: 890-4354-8

Date Collected: 03/17/23 12:05

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 23:02	SMC	EET MID

Client Sample ID: PH04A

Lab Sample ID: 890-4354-9

Date Collected: 03/17/23 12:20

Matrix: Solid

Date Received: 03/17/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 21:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49962	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49628	03/27/23 11:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	49383	03/24/23 09:41	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49516	03/27/23 06:40	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49797	03/29/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49898	03/29/23 23:07	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East Battery

Job ID: 890-4354-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4354-1	PH01	Solid	03/17/23 11:15	03/17/23 15:41	1'
890-4354-2	PH01A	Solid	03/17/23 11:25	03/17/23 15:41	3'
890-4354-4	PH02	Solid	03/17/23 11:40	03/17/23 15:41	2'
890-4354-5	PH02A	Solid	03/17/23 11:50	03/17/23 15:41	4'
890-4354-6	PH03	Solid	03/17/23 10:10	03/17/23 15:41	1'
890-4354-7	PH03A	Solid	03/17/23 10:15	03/17/23 15:41	2'
890-4354-8	PH04	Solid	03/17/23 12:05	03/17/23 15:41	1'
890-4354-9	PH04A	Solid	03/17/23 12:20	03/17/23 15:41	4'



Work Order No:

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7650, Carlsbad, NM (575) 988-3199

www.xenco.com Page _____ of _____

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:				PLU 28 Big Sinks East Battery				Turn Around				P/S.			
Project Number:				03C1558184				☒ Routine ☐ Rush				Code			
Project Location:								Due Date:							
Sampler's Name:				Connor Whilman				TAT starts the day received by the lab. if received by 4:30pm							
PO #:															
SAMPLE RECEIPT															
Samples Received Intact:				☒ Yes ☐ No				Thermometer ID:				☒ Yes ☐ No			
Cooler Custody Seals:				☒ Yes ☐ No				Correction Factor:				TAT - 0.2			
Sample Custody Seals:				☒ Yes ☐ No				Temperature Reading:				2.4			
Total Containers:								Corrected Temperature:				2.4			
Parameters															
RIDES (EPA: 3000.0)															
RIDES (EPA: 3000.0) RIDES (EPA: 3000.0)  890-4354 Chain of Custody															
ANALYSIS REQUEST															
None: NO Cool: Cool HCL: HC H₂SO₄: H₂ H₃PO₄: HP NaHSO₄: NABIS Na₂S₂O₅: NaSO₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SASC  890-4354 Chain of Custody															
Preservative Codes															
None: NO Cool: Cool HCL: HC H₂SO₄: H₂ H₃PO₄: HP NaHSO₄: NABIS Na₂S₂O₅: NaSO₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SASC  890-4354 Chain of Custody															

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLOR	TPH (8)	BTEX (1)	Sample Comments
PH01	S	3/17/83	11:15	1'	G	1				Incident ID:
PH01A			11:25	3'		1				nAPP2300343390
PH01B (HOD)			11:30	4'		1				Cost Center:
PH02			11:40	2'		1				AFE:
PH02A			11:50	4'		1				2191961001
PH03			10:10	1'		1				
PH03A			10:15	2'		1				
PH04			12:05	1'		1				
PH04A			12:20	4'		1				

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TC1P / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U						Hg: 1631 / 245, 1 / 7470 / 7471							

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client. If such losses are due to circumstances beyond the control of Eurofins Xeno, a minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Chick</i>	<i>Amelia Stief</i>	3/17/23 1541			
3					
5					

Revised Date: 08/25/2020 Rev: 2020

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No																	
Client Contact		Phone	Kramer, Jessica		880-6566 1																	
Shipping/Receiving		E-Mail	Jessica.Kramer@et.eurofins.com	State of Origin	Page 1 of 1																	
Company	Eurofins Environment Testing South Cent	Accreditations Required (See note)		New Mexico																		
Address	1211 W Florida Ave	Due Date Requested	880-4354-1																			
City	Midland	TAT Requested (days)	Analysis Requested																			
State, Zip	TX, 79701																					
Phone	432-704-5440(Tel)	PO #																				
Email		W/O #																				
Project Name	PLU 28 Big Sinks East Battery	Project #																				
Site		SSCW#																				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, B=issue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH			8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH (Hold)	8015MOD_Calc (Hold)	300_ORGFM_28D/DI_LEACH Chloride (Hold)	8021B/5035FP_Calc (MOD) BTEX (Hold)	Total_BTEX_GCV (Hold)	Total Number of Containers	Special Instructions/Note:	
PH01 (890-4354-1)		3/17/23	11 15		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH01A (890-4354-2)		3/17/23	11 25		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH01B (890-4354-3)		3/17/23	11 30		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH02 (890-4354-4)		3/17/23	11 40		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH02A (890-4354-5)		3/17/23	11 50		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH03 (890-4354-6)		3/17/23	10 10		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH03A (890-4354-7)		3/17/23	10 15		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH04 (890-4354-8)		3/17/23	12 05		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	
PH04A (890-4354-9)		3/17/23	12 20		Solid		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	

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

Possible Hazard Identification

Unconfirmed

Deliverable Requested I II III IV Other (Specify) Primary Deliverable Rank: 2

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

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date/Time	Date	Time	Method of Shipment
Relinquished by				
Relinquished by	Date/Time			
Relinquished by	Date/Time			
Relinquished by	Date/Time			
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4354-1

SDG Number: 03C1558184

Login Number: 4354

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4354-1

SDG Number: 03C1558184

Login Number: 4354

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 03/21/23 11:22 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/8/2023 2:53:33 PM

JOB DESCRIPTION

PLU 28 Big Sinks East
SDG NUMBER 03C1558184

JOB NUMBER

890-4606-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/8/2023 2:53:33 PM

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

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Laboratory Job ID: 890-4606-1
SDG: 03C1558184

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD 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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Job ID: 890-4606-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4606-1****Receipt**

The samples were received on 5/2/2023 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4606-1), SW02 (890-4606-2), SW03 (890-4606-3) and SW04 (890-4606-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW01 (890-4606-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-52505 and analytical batch 880-52441 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52505 and analytical batch 880-52441 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-52568/2-A), (LCSD 880-52568/3-A) and (MB 880-52568/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-52568 and analytical batch 880-52589 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 8015MOD_NM: Surrogate compounds were inadvertently omitted during the extraction process for the following samples: SW01 (890-4606-1), SW02 (890-4606-2), SW03 (890-4606-3) and SW04 (890-4606-4).

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW01

Lab Sample ID: 890-4606-1

Date Collected: 05/01/23 16:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201	mg/Kg		05/03/23 12:49	05/04/23 00:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 12:49	05/04/23 00:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 12:49	05/04/23 00:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 12:49	05/04/23 00:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 12:49	05/04/23 00:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 12:49	05/04/23 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	05/03/23 12:49	05/04/23 00:52	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	05/03/23 12:49	05/04/23 00:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/04/23 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/05/23 15:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 08:54	05/04/23 18:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/04/23 08:54	05/04/23 18:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 08:54	05/04/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	3	S1-	70 - 130	05/04/23 08:54	05/04/23 18:44	1
o-Terphenyl	0.5	S1-	70 - 130	05/04/23 08:54	05/04/23 18:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	307		5.01	mg/Kg			05/05/23 19:25	1

Client Sample ID: SW02

Lab Sample ID: 890-4606-2

Date Collected: 05/01/23 16:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		05/03/23 12:49	05/04/23 02:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/04/23 02:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/04/23 02:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 12:49	05/04/23 02:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/04/23 02:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 12:49	05/04/23 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/03/23 12:49	05/04/23 02:56	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW02

Lab Sample ID: 890-4606-2

Date Collected: 05/01/23 16:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	05/03/23 12:49	05/04/23 02:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/04/23 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/05/23 15:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	4	S1-	70 - 130			05/04/23 08:54	05/04/23 19:05	1
o-Terphenyl	0.5	S1-	70 - 130			05/04/23 08:54	05/04/23 19:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		4.99	mg/Kg			05/05/23 19:45	1

Client Sample ID: SW03

Lab Sample ID: 890-4606-3

Date Collected: 05/01/23 16:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 12:49	05/04/23 03:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 12:49	05/04/23 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/03/23 12:49	05/04/23 03:16	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/03/23 12:49	05/04/23 03:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/04/23 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/05/23 15:54	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW03

Lab Sample ID: 890-4606-3

Date Collected: 05/01/23 16:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	5	S1-	70 - 130			05/04/23 08:54	05/04/23 19:26	1
o-Terphenyl	0.5	S1-	70 - 130			05/04/23 08:54	05/04/23 19:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		4.95	mg/Kg			05/05/23 19:49	1

Client Sample ID: SW04

Lab Sample ID: 890-4606-4

Date Collected: 05/01/23 16:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U +	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 12:49	05/04/23 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/03/23 12:49	05/04/23 03:37	1
1,4-Difluorobenzene (Surr)	72		70 - 130			05/03/23 12:49	05/04/23 03:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/04/23 12:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/05/23 15:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 08:54	05/04/23 19:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/04/23 08:54	05/04/23 19:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 08:54	05/04/23 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	3	S1-	70 - 130			05/04/23 08:54	05/04/23 19:47	1
o-Terphenyl	0.4	S1-	70 - 130			05/04/23 08:54	05/04/23 19:47	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW04
Date Collected: 05/01/23 16:15
Date Received: 05/02/23 11:24
Sample Depth: 0-1'

Lab Sample ID: 890-4606-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	307		4.99	mg/Kg			05/05/23 20:08	1	

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

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-27884-A-1-C MS	Matrix Spike	70	80
880-27884-A-1-D MSD	Matrix Spike Duplicate	61 S1-	99
890-4606-1	SW01	75	62 S1-
890-4606-2	SW02	98	74
890-4606-3	SW03	100	77
890-4606-4	SW04	101	72
LCS 880-52505/1-A	Lab Control Sample	98	103
LCSD 880-52505/2-A	Lab Control Sample Dup	114	107
MB 880-52456/5-A	Method Blank	65 S1-	92
MB 880-52505/5-A	Method Blank	64 S1-	77
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-27935-A-21-B MS	Matrix Spike	114	125
880-27935-A-21-C MSD	Matrix Spike Duplicate	128	137 S1+
890-4606-1	SW01	3 S1-	0.5 S1-
890-4606-2	SW02	4 S1-	0.5 S1-
890-4606-3	SW03	5 S1-	0.5 S1-
890-4606-4	SW04	3 S1-	0.4 S1-
LCS 880-52568/2-A	Lab Control Sample	124	144 S1+
LCSD 880-52568/3-A	Lab Control Sample Dup	115	135 S1+
MB 880-52568/1-A	Method Blank	161 S1+	196 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52456/5-A

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52456

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 08:48	05/03/23 10:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 08:48	05/03/23 10:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 08:48	05/03/23 10:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 08:48	05/03/23 10:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 08:48	05/03/23 10:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 08:48	05/03/23 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	05/03/23 08:48	05/03/23 10:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/03/23 08:48	05/03/23 10:57	1

Lab Sample ID: MB 880-52505/5-A

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52505

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/03/23 22:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/03/23 22:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/03/23 22:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 12:49	05/03/23 22:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 12:49	05/03/23 22:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 12:49	05/03/23 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	05/03/23 12:49	05/03/23 22:07	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/03/23 12:49	05/03/23 22:07	1

Lab Sample ID: LCS 880-52505/1-A

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1378	*+	mg/Kg		138	70 - 130
Toluene	0.100	0.1201		mg/Kg		120	70 - 130
Ethylbenzene	0.100	0.1159		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2350		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

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

Lab Sample ID: LCSD 880-52505/2-A

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1227		mg/Kg		123	70 - 130	12	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

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

Lab Sample ID: LCSD 880-52505/2-A

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	12	35
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2313		mg/Kg		116	70 - 130	2	35
o-Xylene	0.100	0.1141		mg/Kg		114	70 - 130	1	35

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

Lab Sample ID: 880-27884-A-1-C MS

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52505

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *+ F1	0.0998	0.03786	F1	mg/Kg		38	70 - 130
Toluene	<0.00199	U F1	0.0998	0.04144	F1	mg/Kg		40	70 - 130
Ethylbenzene	<0.00199	U F1	0.0998	0.03575	F1	mg/Kg		35	70 - 130
m-Xylene & p-Xylene	0.00476	F1	0.200	0.06623	F1	mg/Kg		31	70 - 130
o-Xylene	0.00209	F1	0.0998	0.03484	F1	mg/Kg		33	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 880-27884-A-1-D MSD

Matrix: Solid

Analysis Batch: 52441

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52505

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *+ F1	0.100	0.03953	F1	mg/Kg		39	70 - 130	4	35
Toluene	<0.00199	U F1	0.100	0.03496	F1	mg/Kg		34	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.100	0.02930	F1	mg/Kg		28	70 - 130	20	35
m-Xylene & p-Xylene	0.00476	F1	0.201	0.05509	F1	mg/Kg		25	70 - 130	18	35
o-Xylene	0.00209	F1	0.100	0.03098	F1	mg/Kg		29	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-52568/1-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-52568/1-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			05/04/23 08:54	05/04/23 08:19	1
o-Terphenyl	196	S1+	70 - 130			05/04/23 08:54	05/04/23 08:19	1

Lab Sample ID: LCS 880-52568/2-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1116		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		70 - 130				
o-Terphenyl	144	S1+	70 - 130				

Lab Sample ID: LCSD 880-52568/3-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1167		mg/Kg		117	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	992.3		mg/Kg		99	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: 880-27935-A-21-B MS

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	908.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1002		mg/Kg		97	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	125		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

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

Lab Sample ID: 880-27935-A-21-C MSD

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1216	F2	mg/Kg		120	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1117		mg/Kg		109	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	137	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52538/1-A

Matrix: Solid

Analysis Batch: 52711

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/05/23 17:39	1

Lab Sample ID: LCS 880-52538/2-A

Matrix: Solid

Analysis Batch: 52711

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.0		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-52538/3-A

Matrix: Solid

Analysis Batch: 52711

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	272.4		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-4606-1 MS

Matrix: Solid

Analysis Batch: 52711

Client Sample ID: SW01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	307		251	551.9		mg/Kg		98	90 - 110

Lab Sample ID: 890-4606-1 MSD

Matrix: Solid

Analysis Batch: 52711

Client Sample ID: SW01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	307		251	553.0		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

GC VOA

Analysis Batch: 52441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	8021B	52505
890-4606-2	SW02	Total/NA	Solid	8021B	52505
890-4606-3	SW03	Total/NA	Solid	8021B	52505
890-4606-4	SW04	Total/NA	Solid	8021B	52505
MB 880-52456/5-A	Method Blank	Total/NA	Solid	8021B	52456
MB 880-52505/5-A	Method Blank	Total/NA	Solid	8021B	52505
LCS 880-52505/1-A	Lab Control Sample	Total/NA	Solid	8021B	52505
LCSD 880-52505/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52505
880-27884-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	52505
880-27884-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52505

Prep Batch: 52456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52456/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 52505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	5035	
890-4606-2	SW02	Total/NA	Solid	5035	
890-4606-3	SW03	Total/NA	Solid	5035	
890-4606-4	SW04	Total/NA	Solid	5035	
MB 880-52505/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52505/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52505/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27884-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-27884-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	Total BTEX	
890-4606-2	SW02	Total/NA	Solid	Total BTEX	
890-4606-3	SW03	Total/NA	Solid	Total BTEX	
890-4606-4	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 52568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	8015NM Prep	
890-4606-2	SW02	Total/NA	Solid	8015NM Prep	
890-4606-3	SW03	Total/NA	Solid	8015NM Prep	
890-4606-4	SW04	Total/NA	Solid	8015NM Prep	
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27935-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27935-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	8015B NM	52568

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 52589 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-2	SW02	Total/NA	Solid	8015B NM	52568
890-4606-3	SW03	Total/NA	Solid	8015B NM	52568
890-4606-4	SW04	Total/NA	Solid	8015B NM	52568
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015B NM	52568
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52568
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52568
880-27935-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	52568
880-27935-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52568

Analysis Batch: 52730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Total/NA	Solid	8015 NM	
890-4606-2	SW02	Total/NA	Solid	8015 NM	
890-4606-3	SW03	Total/NA	Solid	8015 NM	
890-4606-4	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Soluble	Solid	DI Leach	
890-4606-2	SW02	Soluble	Solid	DI Leach	
890-4606-3	SW03	Soluble	Solid	DI Leach	
890-4606-4	SW04	Soluble	Solid	DI Leach	
MB 880-52538/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52538/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52538/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4606-1 MS	SW01	Soluble	Solid	DI Leach	
890-4606-1 MSD	SW01	Soluble	Solid	DI Leach	

Analysis Batch: 52711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4606-1	SW01	Soluble	Solid	300.0	52538
890-4606-2	SW02	Soluble	Solid	300.0	52538
890-4606-3	SW03	Soluble	Solid	300.0	52538
890-4606-4	SW04	Soluble	Solid	300.0	52538
MB 880-52538/1-A	Method Blank	Soluble	Solid	300.0	52538
LCS 880-52538/2-A	Lab Control Sample	Soluble	Solid	300.0	52538
LCSD 880-52538/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52538
890-4606-1 MS	SW01	Soluble	Solid	300.0	52538
890-4606-1 MSD	SW01	Soluble	Solid	300.0	52538

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW01**Lab Sample ID: 890-4606-1****Date Collected: 05/01/23 16:00****Matrix: Solid****Date Received: 05/02/23 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	52505	05/03/23 12:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52441	05/04/23 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52607	05/04/23 12:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52730	05/05/23 15:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 18:44	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52538	05/03/23 14:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52711	05/05/23 19:25	SMC	EET MID

Client Sample ID: SW02**Lab Sample ID: 890-4606-2****Date Collected: 05/01/23 16:05****Matrix: Solid****Date Received: 05/02/23 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			4.99 g	5 mL	52505	05/03/23 12:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52441	05/04/23 02:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52607	05/04/23 12:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52730	05/05/23 15:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 19:05	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52538	05/03/23 14:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52711	05/05/23 19:45	SMC	EET MID

Client Sample ID: SW03**Lab Sample ID: 890-4606-3****Date Collected: 05/01/23 16:10****Matrix: Solid****Date Received: 05/02/23 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			5.02 g	5 mL	52505	05/03/23 12:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52441	05/04/23 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52607	05/04/23 12:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52730	05/05/23 15:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 19:26	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52538	05/03/23 14:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52711	05/05/23 19:49	SMC	EET MID

Client Sample ID: SW04**Lab Sample ID: 890-4606-4****Date Collected: 05/01/23 16:15****Matrix: Solid****Date Received: 05/02/23 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	52505	05/03/23 12:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52441	05/04/23 03:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52607	05/04/23 12:43	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Client Sample ID: SW04

Date Collected: 05/01/23 16:15

Date Received: 05/02/23 11:24

Lab Sample ID: 890-4606-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52730	05/05/23 15:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 19:47	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52538	05/03/23 14:44	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52711	05/05/23 20:08	SMC	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4606-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4606-1	SW01	Solid	05/01/23 16:00	05/02/23 11:24	0-1'
890-4606-2	SW02	Solid	05/01/23 16:05	05/02/23 11:24	0-1'
890-4606-3	SW03	Solid	05/01/23 16:10	05/02/23 11:24	0-1'
890-4606-4	SW04	Solid	05/01/23 16:15	05/02/23 11:24	0-1'

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- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 998-3199

Chain of Custody

Work Order No: _____

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558184	Due Date:			
Project Location:	32.10371, -103.77792	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT					
Samples Received Intact:	Yes ☒ No ☐	Temp Blank:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐
Cooler Custody Seals:	Yes ☒ No ☐	Thermometer ID:	TMC-007		
Sample Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2		
Total Containers:		Temperature Reading:	1.0		
		Corrected Temperature:	0.8		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
SW01	S	5/1/2023	16:00	0-1'	Comp 1
SW02	S	5/1/2023	16:05	0-1'	Comp 1
SW03	S	5/1/2023	16:10	0-1'	Comp 1
SW04	S	5/1/2023	16:15	0-1'	Comp 1
ANALYSIS REQUEST					
CHLORIDES (EPA: 300.0)					
TPH (8015)					
BTEX (8021)					
					
890-4606 Chain of Custody					
Preservative Codes					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					
Sample Comments					
Incident ID: NAPP2300343390					
Cost Center: 2191961001					
AFE: _____					
API: 30-015-45732					
tmorrissey@ensolum.com					

Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 	2 	5/1/2023 11:00	3 	4 	5/1/2023 11:34
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4606-1

SDG Number: 03C1558184

Login Number: 4606

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4606-1

SDG Number: 03C1558184

Login Number: 4606

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/03/23 10:57 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/9/2023 8:09:37 AM

JOB DESCRIPTION

PLU 28 Big Sinks East
SDG NUMBER 03C1558184

JOB NUMBER

890-4607-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/9/2023 8:09:37 AM

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

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Laboratory Job ID: 890-4607-1
SDG: 03C1558184

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.

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)

Eurofins Carlsbad

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Job ID: 890-4607-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4607-1

Receipt

The samples were received on 5/2/2023 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 0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4607-1), FS02 (890-4607-2), FS03 (890-4607-3), FS04 (890-4607-4), FS05 (890-4607-5), FS06 (890-4607-6), FS07 (890-4607-7), FS08 (890-4607-8), FS09 (890-4607-9), FS10 (890-4607-10), FS11 (890-4607-11), FS12 (890-4607-12), FS13 (890-4607-13), FS14 (890-4607-14), FS15 (890-4607-15), FS16 (890-4607-16), FS17 (890-4607-17), FS18 (890-4607-18), FS19 (890-4607-19), FS20 (890-4607-20), FS21 (890-4607-21), FS22 (890-4607-22), FS23 (890-4607-23), FS24 (890-4607-24), FS25 (890-4607-25), FS26 (890-4607-26), FS27 (890-4607-27), FS28 (890-4607-28), FS29 (890-4607-29), FS30 (890-4607-30), FS31 (890-4607-31), FS32 (890-4607-32), FS33 (890-4607-33), FS34 (890-4607-34), FS35 (890-4607-35), FS36 (890-4607-36), FS37 (890-4607-37), FS38 (890-4607-38), FS39 (890-4607-39), FS40 (890-4607-40), FS41 (890-4607-41), FS42 (890-4607-42), FS43 (890-4607-43), FS44 (890-4607-44), FS45 (890-4607-45), FS46 (890-4607-46), FS47 (890-4607-47), FS48 (890-4607-48), FS49 (890-4607-49), FS50 (890-4607-50), FS51 (890-4607-51), FS52 (890-4607-52), FS53 (890-4607-53), FS54 (890-4607-54), FS55 (890-4607-55), FS56 (890-4607-56), FS57 (890-4607-57), FS58 (890-4607-58), FS59 (890-4607-59), FS60 (890-4607-60), FS61 (890-4607-61), FS62 (890-4607-62), FS63 (890-4607-63), FS64 (890-4607-64), FS65 (890-4607-65), FS66 (890-4607-66), FS67 (890-4607-67), FS68 (890-4607-68), FS69 (890-4607-69), FS70 (890-4607-70), FS71 (890-4607-71), FS72 (890-4607-72), FS73 (890-4607-73), FS74 (890-4607-74), FS75 (890-4607-75), FS76 (890-4607-76), FS77 (890-4607-77), FS78 (890-4607-78), FS79 (890-4607-79), FS80 (890-4607-80), FS81 (890-4607-81), FS82 (890-4607-82), FS83 (890-4607-83), FS84 (890-4607-84), FS85 (890-4607-85), FS86 (890-4607-86), FS87 (890-4607-87), FS88 (890-4607-88), FS89 (890-4607-89), FS90 (890-4607-90), FS91 (890-4607-91) and FS92 (890-4607-92).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4607-1) and (890-4607-A-1-B MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52564 recovered above the upper control limit for Benzene, Toluene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS12 (890-4607-12), FS13 (890-4607-13), FS14 (890-4607-14), FS15 (890-4607-15), FS16 (890-4607-16), FS18 (890-4607-18), FS19 (890-4607-19), FS20 (890-4607-20) and (CCV 880-52564/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52692 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-52692/33), (CCV 880-52692/51) and (CCV 880-52692/64).

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-52520 and analytical batch 880-52692 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52692 recovered above the upper control limit for Benzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52693 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Job ID: 890-4607-1 (Continued)**Laboratory: Eurofins Carlsbad (Continued)**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52693 recovered above the upper control limit for Benzene and Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52693 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52693 recovered above the upper control limit for Benzene, Toluene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS21 (890-4607-21), FS22 (890-4607-22), FS23 (890-4607-23), FS24 (890-4607-24), FS25 (890-4607-25), FS26 (890-4607-26), FS27 (890-4607-27), FS28 (890-4607-28), FS29 (890-4607-29), FS30 (890-4607-30), FS32 (890-4607-32), FS33 (890-4607-33), FS34 (890-4607-34), FS35 (890-4607-35), FS36 (890-4607-36), FS37 (890-4607-37), FS38 (890-4607-38), FS39 (890-4607-39), FS40 (890-4607-40), FS41 (890-4607-41), FS42 (890-4607-42), FS43 (890-4607-43), FS44 (890-4607-44), FS45 (890-4607-45), FS46 (890-4607-46), FS47 (890-4607-47), FS48 (890-4607-48), FS49 (890-4607-49), FS50 (890-4607-50), FS51 (890-4607-51), FS52 (890-4607-52), FS53 (890-4607-53), FS54 (890-4607-54), FS55 (890-4607-55), FS56 (890-4607-56), FS57 (890-4607-57), FS58 (890-4607-58), FS59 (890-4607-59), FS60 (890-4607-60), FS62 (890-4607-62), FS63 (890-4607-63), FS64 (890-4607-64), FS65 (890-4607-65), FS66 (890-4607-66), FS67 (890-4607-67), FS68 (890-4607-68), FS69 (890-4607-69), FS70 (890-4607-70), FS71 (890-4607-71), FS72 (890-4607-72), FS73 (890-4607-73), FS74 (890-4607-74), FS75 (890-4607-75), FS76 (890-4607-76), FS77 (890-4607-77), FS78 (890-4607-78), FS79 (890-4607-79), FS80 (890-4607-80), (CCV 880-52693/20), (CCV 880-52693/64), (CCV 880-52693/82), (CCV 880-52693/95), (LCS 880-52519/1-A), (LCSD 880-52518/2-A), (LCSD 880-52519/2-A), (890-4607-A-21-A MS), (890-4607-A-21-B MSD), (890-4607-A-41-A MS), (890-4607-A-41-B MSD), (890-4607-A-61-J MS) and (890-4607-A-61-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-52568/2-A), (LCSD 880-52568/3-A) and (MB 880-52568/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-52568 and analytical batch 880-52589 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 8015MOD_NM: Surrogate compounds were inadvertently omitted during the extraction process for the following sample: FS92 (890-4607-92).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-52640 and analytical batch 880-52763 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS21 (890-4607-21), FS22 (890-4607-22), FS23 (890-4607-23), FS24 (890-4607-24), FS25 (890-4607-25), FS26 (890-4607-26), FS27 (890-4607-27), FS28 (890-4607-28), FS29 (890-4607-29), FS30 (890-4607-30), (890-4607-A-21-H MS) and (890-4607-A-21-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS31 (890-4607-31), FS32 (890-4607-32), FS33 (890-4607-33), FS34 (890-4607-34), FS35 (890-4607-35), FS36 (890-4607-36), FS37 (890-4607-37), FS38 (890-4607-38), FS39 (890-4607-39) and FS40 (890-4607-40). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52640 and analytical

Case Narrative

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Job ID: 890-4607-1 (Continued)**Laboratory: Eurofins Carlsbad (Continued)**

batch 880-52763 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-52712 and analytical batch 880-52729 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-52729 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-52729/20), (CCV 880-52729/31) and (CCV 880-52729/5).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-52678 and analytical batch 880-52759 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4607-A-41-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52678 and analytical batch 880-52759 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-52679 and analytical batch 880-52761 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS81 (890-4607-81). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS87 (890-4607-87). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-52761/20). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52541 and analytical batch 880-52774 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: FS41 (890-4607-41), FS42 (890-4607-42), FS43 (890-4607-43), FS44 (890-4607-44), FS45 (890-4607-45), FS46 (890-4607-46), FS47 (890-4607-47), FS48 (890-4607-48), FS49 (890-4607-49), FS50 (890-4607-50), (890-4607-A-41-E MS) and (890-4607-A-41-F MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52543 and analytical batch 880-52773 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: FS89 (890-4607-89), FS90 (890-4607-90), FS91 (890-4607-91), FS92 (890-4607-92), (890-4607-A-89-C MS) and (890-4607-A-89-D MSD).

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS01

Lab Sample ID: 890-4607-1

Date Collected: 05/01/23 08:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 12:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 12:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 12:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:19	05/04/23 12:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 12:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:19	05/04/23 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/03/23 13:19	05/04/23 12:02	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/23 13:19	05/04/23 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/04/23 20:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/03/23 22:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/03/23 22:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/03/23 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	05/03/23 14:14	05/03/23 22:11	1
o-Terphenyl	138	S1+	70 - 130	05/03/23 14:14	05/03/23 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		4.98	mg/Kg			05/06/23 12:56	1

Client Sample ID: FS02

Lab Sample ID: 890-4607-2

Date Collected: 05/01/23 08:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 05:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 05:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 05:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/04/23 15:28	05/05/23 05:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 05:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/04/23 15:28	05/05/23 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/04/23 15:28	05/05/23 05:42	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS02

Lab Sample ID: 890-4607-2

Date Collected: 05/01/23 08:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	05/04/23 15:28	05/05/23 05:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/03/23 23:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/03/23 23:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/03/23 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/03/23 14:14	05/03/23 23:16	1
o-Terphenyl	106		70 - 130			05/03/23 14:14	05/03/23 23:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		5.02	mg/Kg			05/06/23 13:12	1

Client Sample ID: FS03

Lab Sample ID: 890-4607-3

Date Collected: 05/01/23 08:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 06:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 06:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 06:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/04/23 15:28	05/05/23 06:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 06:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/04/23 15:28	05/05/23 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/04/23 15:28	05/05/23 06:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/04/23 15:28	05/05/23 06:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/04/23 14:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS03

Lab Sample ID: 890-4607-3

Date Collected: 05/01/23 08:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 23:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 23:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/03/23 14:14	05/03/23 23:37	1
o-Terphenyl	112		70 - 130			05/03/23 14:14	05/03/23 23:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		5.03	mg/Kg			05/06/23 13:17	1

Client Sample ID: FS04

Lab Sample ID: 890-4607-4

Date Collected: 05/01/23 08:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/04/23 15:28	05/05/23 08:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			05/04/23 15:28	05/05/23 08:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/04/23 15:28	05/05/23 08:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.4		49.8	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/03/23 23:58	1
Diesel Range Organics (Over C10-C28)	59.4		49.8	mg/Kg		05/03/23 14:14	05/03/23 23:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/03/23 23:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			05/03/23 14:14	05/03/23 23:58	1
o-Terphenyl	114		70 - 130			05/03/23 14:14	05/03/23 23:58	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS04

Lab Sample ID: 890-4607-4

Date Collected: 05/01/23 08:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		5.00	mg/Kg			05/06/23 13:23	1

Client Sample ID: FS05

Lab Sample ID: 890-4607-5

Date Collected: 05/01/23 08:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 09:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/04/23 15:28	05/05/23 09:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/04/23 15:28	05/05/23 09:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.3		50.0	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 00:20	1
Diesel Range Organics (Over C10-C28)	80.3		50.0	mg/Kg		05/03/23 14:14	05/04/23 00:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/03/23 14:14	05/04/23 00:20	1
o-Terphenyl	106		70 - 130			05/03/23 14:14	05/04/23 00:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		4.99	mg/Kg			05/06/23 13:28	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS06

Lab Sample ID: 890-4607-6

Date Collected: 05/01/23 08:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 09:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 09:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 09:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/04/23 15:28	05/05/23 09:35	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/04/23 15:28	05/05/23 09:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.3		50.0	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 00:42	1
Diesel Range Organics (Over C10-C28)	70.3		50.0	mg/Kg		05/03/23 14:14	05/04/23 00:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/03/23 14:14	05/04/23 00:42	1
o-Terphenyl	109		70 - 130	05/03/23 14:14	05/04/23 00:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		4.97	mg/Kg			05/06/23 13:44	1

Client Sample ID: FS07

Lab Sample ID: 890-4607-7

Date Collected: 05/01/23 08:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 09:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 09:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 09:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/04/23 15:28	05/05/23 09:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 09:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/04/23 15:28	05/05/23 09:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/04/23 15:28	05/05/23 09:55	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS07

Lab Sample ID: 890-4607-7

Date Collected: 05/01/23 08:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	05/04/23 15:28	05/05/23 09:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.0		49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 01:03	1
Diesel Range Organics (Over C10-C28)	87.0		49.9	mg/Kg		05/03/23 14:14	05/04/23 01:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/03/23 14:14	05/04/23 01:03	1
o-Terphenyl	108		70 - 130			05/03/23 14:14	05/04/23 01:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.03	mg/Kg			05/06/23 13:50	1

Client Sample ID: FS08

Lab Sample ID: 890-4607-8

Date Collected: 05/01/23 08:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 10:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 10:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 10:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/04/23 15:28	05/05/23 10:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/04/23 15:28	05/05/23 10:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/04/23 15:28	05/05/23 10:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	05/04/23 15:28	05/05/23 10:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/04/23 15:28	05/05/23 10:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/04/23 14:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS08

Lab Sample ID: 890-4607-8

Date Collected: 05/01/23 08:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 01:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/03/23 14:14	05/04/23 01:25	1
o-Terphenyl	113		70 - 130			05/03/23 14:14	05/04/23 01:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		5.02	mg/Kg			05/06/23 13:55	1

Client Sample ID: FS09

Lab Sample ID: 890-4607-9

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/04/23 15:28	05/05/23 10:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			05/04/23 15:28	05/05/23 10:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/04/23 15:28	05/05/23 10:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 01:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 01:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 01:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			05/03/23 14:14	05/04/23 01:46	1
o-Terphenyl	127		70 - 130			05/03/23 14:14	05/04/23 01:46	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS09

Lab Sample ID: 890-4607-9

Date Collected: 05/01/23 09:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	257		5.00	mg/Kg			05/06/23 14:00	1

Client Sample ID: FS10

Lab Sample ID: 890-4607-10

Date Collected: 05/01/23 09:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/04/23 15:28	05/05/23 10:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			05/04/23 15:28	05/05/23 10:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/04/23 15:28	05/05/23 10:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/03/23 14:14	05/04/23 02:08	1
o-Terphenyl	114		70 - 130			05/03/23 14:14	05/04/23 02:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.00	mg/Kg			05/06/23 14:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS11

Lab Sample ID: 890-4607-11

Date Collected: 05/01/23 09:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:19	05/04/23 18:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:19	05/04/23 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/03/23 13:19	05/04/23 18:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/23 13:19	05/04/23 18:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	05/03/23 14:14	05/04/23 02:51	1
o-Terphenyl	112		70 - 130	05/03/23 14:14	05/04/23 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		5.01	mg/Kg			05/06/23 14:11	1

Client Sample ID: FS12

Lab Sample ID: 890-4607-12

Date Collected: 05/01/23 09:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:19	05/04/23 18:52	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:19	05/04/23 18:52	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:19	05/04/23 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	05/03/23 13:19	05/04/23 18:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS12

Lab Sample ID: 890-4607-12

Date Collected: 05/01/23 09:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/03/23 13:19	05/04/23 18:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.5		50.0	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 03:13	1
Diesel Range Organics (Over C10-C28)	60.5		50.0	mg/Kg		05/03/23 14:14	05/04/23 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 03:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			05/03/23 14:14	05/04/23 03:13	1
o-Terphenyl	123		70 - 130			05/03/23 14:14	05/04/23 03:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	277		4.99	mg/Kg			05/06/23 14:27	1

Client Sample ID: FS13

Lab Sample ID: 890-4607-13

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 19:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	05/03/23 13:19	05/04/23 19:18	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/03/23 13:19	05/04/23 19:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/04/23 14:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS13

Lab Sample ID: 890-4607-13

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 03:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 03:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/03/23 14:14	05/04/23 03:35	1
o-Terphenyl	111		70 - 130			05/03/23 14:14	05/04/23 03:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.95	mg/Kg			05/06/23 14:33	1

Client Sample ID: FS14

Lab Sample ID: 890-4607-14

Date Collected: 05/01/23 09:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			05/03/23 13:19	05/04/23 19:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/03/23 13:19	05/04/23 19:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 03:56	1
Diesel Range Organics (Over C10-C28)	107		49.9	mg/Kg		05/03/23 14:14	05/04/23 03:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			05/03/23 14:14	05/04/23 03:56	1
o-Terphenyl	117		70 - 130			05/03/23 14:14	05/04/23 03:56	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS14

Lab Sample ID: 890-4607-14

Date Collected: 05/01/23 09:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		4.99	mg/Kg			05/06/23 14:49	1

Client Sample ID: FS15

Lab Sample ID: 890-4607-15

Date Collected: 05/01/23 09:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:19	05/04/23 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			05/03/23 13:19	05/04/23 20:10	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/03/23 13:19	05/04/23 20:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.4		50.0	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 04:18	1
Diesel Range Organics (Over C10-C28)	91.4		50.0	mg/Kg		05/03/23 14:14	05/04/23 04:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/04/23 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/03/23 14:14	05/04/23 04:18	1
o-Terphenyl	104		70 - 130			05/03/23 14:14	05/04/23 04:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		5.04	mg/Kg			05/06/23 14:54	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS16

Lab Sample ID: 890-4607-16

Date Collected: 05/01/23 09:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 20:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 20:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 20:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:19	05/04/23 20:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 20:36	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:19	05/04/23 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	05/03/23 13:19	05/04/23 20:36	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/03/23 13:19	05/04/23 20:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 04:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 04:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 04:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/03/23 14:14	05/04/23 04:39	1
o-Terphenyl	114		70 - 130	05/03/23 14:14	05/04/23 04:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.5		5.05	mg/Kg			05/06/23 14:59	1

Client Sample ID: FS17

Lab Sample ID: 890-4607-17

Date Collected: 05/01/23 09:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:19	05/04/23 21:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:19	05/04/23 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	05/03/23 13:19	05/04/23 21:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS17

Lab Sample ID: 890-4607-17

Date Collected: 05/01/23 09:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75		70 - 130	05/03/23 13:19	05/04/23 21:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/03/23 14:14	05/04/23 05:01	1
o-Terphenyl	111		70 - 130			05/03/23 14:14	05/04/23 05:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.8		4.99	mg/Kg			05/06/23 15:05	1

Client Sample ID: FS18

Lab Sample ID: 890-4607-18

Date Collected: 05/01/23 09:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/03/23 13:19	05/04/23 21:29	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:19	05/04/23 21:29	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/03/23 13:19	05/04/23 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	05/03/23 13:19	05/04/23 21:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/03/23 13:19	05/04/23 21:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS18

Lab Sample ID: 890-4607-18

Date Collected: 05/01/23 09:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 05:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 05:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/03/23 14:14	05/04/23 05:22	1
o-Terphenyl	114		70 - 130			05/03/23 14:14	05/04/23 05:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.7		5.00	mg/Kg			05/06/23 15:10	1

Client Sample ID: FS19

Lab Sample ID: 890-4607-19

Date Collected: 05/01/23 09:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:19	05/04/23 21:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			05/03/23 13:19	05/04/23 21:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/03/23 13:19	05/04/23 21:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/03/23 14:14	05/04/23 05:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/03/23 14:14	05/04/23 05:44	1
o-Terphenyl	113		70 - 130			05/03/23 14:14	05/04/23 05:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS19

Lab Sample ID: 890-4607-19

Date Collected: 05/01/23 09:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		5.02	mg/Kg			05/06/23 15:16	1

Client Sample ID: FS20

Lab Sample ID: 890-4607-20

Date Collected: 05/01/23 09:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:19	05/04/23 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			05/03/23 13:19	05/04/23 22:20	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/03/23 13:19	05/04/23 22:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/05/23 15:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/04/23 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 06:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 06:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/03/23 14:14	05/04/23 06:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			05/03/23 14:14	05/04/23 06:06	1
o-Terphenyl	109		70 - 130			05/03/23 14:14	05/04/23 06:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		4.96	mg/Kg			05/06/23 15:21	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS21

Lab Sample ID: 890-4607-21

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 16:47	1
Toluene	<0.00201	U F1	0.00201	mg/Kg		05/03/23 13:21	05/05/23 16:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 16:47	1
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.00402	mg/Kg		05/03/23 13:21	05/05/23 16:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 16:47	1
Xylenes, Total	<0.00402	U F2 F1	0.00402	mg/Kg		05/03/23 13:21	05/05/23 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	05/03/23 13:21	05/05/23 16:47	1
1,4-Difluorobenzene (Surr)	74		70 - 130	05/03/23 13:21	05/05/23 16:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 11:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		05/04/23 15:56	05/06/23 11:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	220	S1+	70 - 130	05/04/23 15:56	05/06/23 11:13	1
o-Terphenyl	230	S1+	70 - 130	05/04/23 15:56	05/06/23 11:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		4.99	mg/Kg			05/06/23 13:24	1

Client Sample ID: FS22

Lab Sample ID: 890-4607-22

Date Collected: 05/01/23 10:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 17:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130	05/03/23 13:21	05/05/23 17:13	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS22

Lab Sample ID: 890-4607-22

Date Collected: 05/01/23 10:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/23 13:21	05/05/23 17:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 12:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 12:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	206	S1+	70 - 130			05/04/23 15:56	05/06/23 12:20	1
o-Terphenyl	217	S1+	70 - 130			05/04/23 15:56	05/06/23 12:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		5.02	mg/Kg			05/06/23 13:38	1

Client Sample ID: FS23

Lab Sample ID: 890-4607-23

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 17:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 17:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	05/03/23 13:21	05/05/23 17:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/03/23 13:21	05/05/23 17:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 10:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS23

Lab Sample ID: 890-4607-23

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 12:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 12:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 12:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	217	S1+	70 - 130			05/04/23 15:56	05/06/23 12:42	1
o-Terphenyl	225	S1+	70 - 130			05/04/23 15:56	05/06/23 12:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		5.01	mg/Kg			05/06/23 13:43	1

Client Sample ID: FS24

Lab Sample ID: 890-4607-24

Date Collected: 05/01/23 10:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:21	05/05/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130			05/03/23 13:21	05/05/23 18:05	1
1,4-Difluorobenzene (Surr)	87		70 - 130			05/03/23 13:21	05/05/23 18:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	230	S1+	70 - 130			05/04/23 15:56	05/06/23 13:05	1
o-Terphenyl	243	S1+	70 - 130			05/04/23 15:56	05/06/23 13:05	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS24

Lab Sample ID: 890-4607-24

Date Collected: 05/01/23 10:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		5.00	mg/Kg			05/06/23 13:48	1

Client Sample ID: FS25

Lab Sample ID: 890-4607-25

Date Collected: 05/01/23 10:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/05/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			05/03/23 13:21	05/05/23 18:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/03/23 13:21	05/05/23 18:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 13:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	207	S1+	70 - 130			05/04/23 15:56	05/06/23 13:28	1
o-Terphenyl	216	S1+	70 - 130			05/04/23 15:56	05/06/23 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		4.99	mg/Kg			05/06/23 13:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS26

Lab Sample ID: 890-4607-26

Date Collected: 05/01/23 10:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 18:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 18:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 18:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/03/23 13:21	05/05/23 18:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 18:57	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/03/23 13:21	05/05/23 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	05/03/23 13:21	05/05/23 18:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/03/23 13:21	05/05/23 18:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	223	S1+	70 - 130	05/04/23 15:56	05/06/23 13:49	1
o-Terphenyl	236	S1+	70 - 130	05/04/23 15:56	05/06/23 13:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		4.97	mg/Kg			05/06/23 14:07	1

Client Sample ID: FS27

Lab Sample ID: 890-4607-27

Date Collected: 05/01/23 10:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 19:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 19:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 19:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/05/23 19:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 19:23	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/05/23 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	05/03/23 13:21	05/05/23 19:23	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS27

Lab Sample ID: 890-4607-27

Date Collected: 05/01/23 10:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/03/23 13:21	05/05/23 19:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	217	S1+	70 - 130			05/04/23 15:56	05/06/23 14:11	1
o-Terphenyl	227	S1+	70 - 130			05/04/23 15:56	05/06/23 14:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		4.98	mg/Kg			05/06/23 14:12	1

Client Sample ID: FS28

Lab Sample ID: 890-4607-28

Date Collected: 05/01/23 10:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:21	05/05/23 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			05/03/23 13:21	05/05/23 19:48	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/03/23 13:21	05/05/23 19:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 10:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS28

Lab Sample ID: 890-4607-28

Date Collected: 05/01/23 10:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	211	S1+	70 - 130			05/04/23 15:56	05/06/23 14:33	1
o-Terphenyl	221	S1+	70 - 130			05/04/23 15:56	05/06/23 14:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		5.02	mg/Kg			05/06/23 14:17	1

Client Sample ID: FS29

Lab Sample ID: 890-4607-29

Date Collected: 05/01/23 10:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/03/23 13:21	05/05/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130			05/03/23 13:21	05/05/23 20:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/03/23 13:21	05/05/23 20:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 14:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	201	S1+	70 - 130			05/04/23 15:56	05/06/23 14:55	1
o-Terphenyl	211	S1+	70 - 130			05/04/23 15:56	05/06/23 14:55	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS29

Lab Sample ID: 890-4607-29

Date Collected: 05/01/23 10:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		5.00	mg/Kg			05/06/23 14:22	1

Client Sample ID: FS30

Lab Sample ID: 890-4607-30

Date Collected: 05/01/23 10:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130			05/03/23 13:21	05/05/23 20:41	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/03/23 13:21	05/05/23 20:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 15:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 15:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 15:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	209	S1+	70 - 130			05/04/23 15:56	05/06/23 15:17	1
o-Terphenyl	218	S1+	70 - 130			05/04/23 15:56	05/06/23 15:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		5.00	mg/Kg			05/06/23 14:27	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS31

Lab Sample ID: 890-4607-31

Date Collected: 05/01/23 10:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 22:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 22:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 22:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 22:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/05/23 22:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/05/23 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	05/03/23 13:21	05/05/23 22:24	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/03/23 13:21	05/05/23 22:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 16:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 16:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	208	S1+	70 - 130	05/04/23 15:56	05/06/23 16:02	1
o-Terphenyl	219	S1+	70 - 130	05/04/23 15:56	05/06/23 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		5.04	mg/Kg			05/06/23 14:32	1

Client Sample ID: FS32

Lab Sample ID: 890-4607-32

Date Collected: 05/01/23 10:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 22:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 22:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 22:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/05/23 22:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 22:50	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/05/23 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	05/03/23 13:21	05/05/23 22:50	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS32

Lab Sample ID: 890-4607-32

Date Collected: 05/01/23 10:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	05/03/23 13:21	05/05/23 22:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 16:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 16:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	207	S1+	70 - 130			05/04/23 15:56	05/06/23 16:23	1
o-Terphenyl	216	S1+	70 - 130			05/04/23 15:56	05/06/23 16:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		4.99	mg/Kg			05/06/23 14:46	1

Client Sample ID: FS33

Lab Sample ID: 890-4607-33

Date Collected: 05/01/23 11:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 23:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 23:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 23:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:21	05/05/23 23:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:21	05/05/23 23:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:21	05/05/23 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	05/03/23 13:21	05/05/23 23:17	1
1,4-Difluorobenzene (Surr)	73		70 - 130	05/03/23 13:21	05/05/23 23:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.4		50.0	mg/Kg			05/08/23 10:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS33

Lab Sample ID: 890-4607-33

Date Collected: 05/01/23 11:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 16:44	1
Diesel Range Organics (Over C10-C28)	61.4		50.0	mg/Kg		05/04/23 15:56	05/06/23 16:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 16:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	220	S1+	70 - 130			05/04/23 15:56	05/06/23 16:44	1
o-Terphenyl	217	S1+	70 - 130			05/04/23 15:56	05/06/23 16:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		5.02	mg/Kg			05/06/23 14:51	1

Client Sample ID: FS34

Lab Sample ID: 890-4607-34

Date Collected: 05/01/23 11:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/05/23 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130			05/03/23 13:21	05/05/23 23:43	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/03/23 13:21	05/05/23 23:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.4		50.0	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 17:05	1
Diesel Range Organics (Over C10-C28)	90.4		50.0	mg/Kg		05/04/23 15:56	05/06/23 17:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	224	S1+	70 - 130			05/04/23 15:56	05/06/23 17:05	1
o-Terphenyl	216	S1+	70 - 130			05/04/23 15:56	05/06/23 17:05	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS34

Lab Sample ID: 890-4607-34

Date Collected: 05/01/23 11:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.99	mg/Kg			05/06/23 15:05	1

Client Sample ID: FS35

Lab Sample ID: 890-4607-35

Date Collected: 05/01/23 11:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:21	05/06/23 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			05/03/23 13:21	05/06/23 00:09	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/03/23 13:21	05/06/23 00:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.8		49.8	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 17:26	1
Diesel Range Organics (Over C10-C28)	57.8		49.8	mg/Kg		05/04/23 15:56	05/06/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130			05/04/23 15:56	05/06/23 17:26	1
o-Terphenyl	220	S1+	70 - 130			05/04/23 15:56	05/06/23 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		5.01	mg/Kg			05/06/23 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS36

Lab Sample ID: 890-4607-36

Date Collected: 05/01/23 11:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 00:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 00:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 00:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/06/23 00:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 00:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/06/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130	05/03/23 13:21	05/06/23 00:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/03/23 13:21	05/06/23 00:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	172		50.0	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 17:46	1
Diesel Range Organics (Over C10-C28)	172		50.0	mg/Kg		05/04/23 15:56	05/06/23 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	221	S1+	70 - 130	05/04/23 15:56	05/06/23 17:46	1
o-Terphenyl	216	S1+	70 - 130	05/04/23 15:56	05/06/23 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.05	mg/Kg			05/06/23 15:15	1

Client Sample ID: FS37

Lab Sample ID: 890-4607-37

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/06/23 01:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:21	05/06/23 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	05/03/23 13:21	05/06/23 01:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS37

Lab Sample ID: 890-4607-37

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	05/03/23 13:21	05/06/23 01:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.6		49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 18:07	1
Diesel Range Organics (Over C10-C28)	95.6		49.9	mg/Kg		05/04/23 15:56	05/06/23 18:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	210	S1+	70 - 130			05/04/23 15:56	05/06/23 18:07	1
o-Terphenyl	201	S1+	70 - 130			05/04/23 15:56	05/06/23 18:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		4.99	mg/Kg			05/06/23 15:20	1

Client Sample ID: FS38

Lab Sample ID: 890-4607-38

Date Collected: 05/01/23 11:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/06/23 01:28	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/06/23 01:28	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/06/23 01:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/03/23 13:21	05/06/23 01:28	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:21	05/06/23 01:28	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/03/23 13:21	05/06/23 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/03/23 13:21	05/06/23 01:28	1
1,4-Difluorobenzene (Surr)	79		70 - 130	05/03/23 13:21	05/06/23 01:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	111		49.8	mg/Kg			05/08/23 10:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS38

Lab Sample ID: 890-4607-38

Date Collected: 05/01/23 11:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 18:28	1
Diesel Range Organics (Over C10-C28)	111		49.8	mg/Kg		05/04/23 15:56	05/06/23 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	256	S1+	70 - 130			05/04/23 15:56	05/06/23 18:28	1
o-Terphenyl	246	S1+	70 - 130			05/04/23 15:56	05/06/23 18:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	218		4.96	mg/Kg			05/06/23 15:25	1

Client Sample ID: FS39

Lab Sample ID: 890-4607-39

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:21	05/06/23 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			05/03/23 13:21	05/06/23 01:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130			05/03/23 13:21	05/06/23 01:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	116		49.9	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 18:49	1
Diesel Range Organics (Over C10-C28)	116		49.9	mg/Kg		05/04/23 15:56	05/06/23 18:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/04/23 15:56	05/06/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	227	S1+	70 - 130			05/04/23 15:56	05/06/23 18:49	1
o-Terphenyl	217	S1+	70 - 130			05/04/23 15:56	05/06/23 18:49	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS39

Lab Sample ID: 890-4607-39

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		5.02	mg/Kg			05/06/23 15:30	1

Client Sample ID: FS40

Lab Sample ID: 890-4607-40

Date Collected: 05/01/23 11:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:21	05/06/23 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130			05/03/23 13:21	05/06/23 02:20	1
1,4-Difluorobenzene (Surr)	84		70 - 130			05/03/23 13:21	05/06/23 02:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.6		49.8	mg/Kg			05/08/23 10:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 19:10	1
Diesel Range Organics (Over C10-C28)	95.6		49.8	mg/Kg		05/04/23 15:56	05/06/23 19:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/04/23 15:56	05/06/23 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	226	S1+	70 - 130			05/04/23 15:56	05/06/23 19:10	1
o-Terphenyl	218	S1+	70 - 130			05/04/23 15:56	05/06/23 19:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		5.00	mg/Kg			05/06/23 15:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS41

Lab Sample ID: 890-4607-41

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 06:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	05/03/23 13:22	05/06/23 06:16	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/03/23 13:22	05/06/23 06:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.9		50.0	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 11:08	1
Diesel Range Organics (Over C10-C28)	93.9	F1	50.0	mg/Kg		05/05/23 09:13	05/06/23 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/05/23 09:13	05/06/23 11:08	1
o-Terphenyl	78		70 - 130	05/05/23 09:13	05/06/23 11:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220	F1	4.96	mg/Kg			05/06/23 00:13	1

Client Sample ID: FS42

Lab Sample ID: 890-4607-42

Date Collected: 05/01/23 11:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 06:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 06:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	05/03/23 13:22	05/06/23 06:42	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS42

Lab Sample ID: 890-4607-42

Date Collected: 05/01/23 11:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	05/03/23 13:22	05/06/23 06:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			05/05/23 09:13	05/06/23 12:17	1
o-Terphenyl	72		70 - 130			05/05/23 09:13	05/06/23 12:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		4.99	mg/Kg			05/06/23 00:29	1

Client Sample ID: FS43

Lab Sample ID: 890-4607-43

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 07:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	05/03/23 13:22	05/06/23 07:09	1
1,4-Difluorobenzene (Surr)	84		70 - 130	05/03/23 13:22	05/06/23 07:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS43

Lab Sample ID: 890-4607-43

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 09:13	05/06/23 12:39	1
o-Terphenyl	78		70 - 130			05/05/23 09:13	05/06/23 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		5.04	mg/Kg			05/06/23 00:34	1

Client Sample ID: FS44

Lab Sample ID: 890-4607-44

Date Collected: 05/01/23 11:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			05/03/23 13:22	05/06/23 07:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130			05/03/23 13:22	05/06/23 07:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			05/05/23 09:13	05/06/23 13:02	1
o-Terphenyl	81		70 - 130			05/05/23 09:13	05/06/23 13:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS44

Lab Sample ID: 890-4607-44

Date Collected: 05/01/23 11:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		5.02	mg/Kg			05/06/23 00:40	1

Client Sample ID: FS45

Lab Sample ID: 890-4607-45

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			05/03/23 13:22	05/06/23 08:02	1
1,4-Difluorobenzene (Surr)	79		70 - 130			05/03/23 13:22	05/06/23 08:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/05/23 09:13	05/06/23 13:24	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		5.02	mg/Kg			05/06/23 00:45	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS46

Lab Sample ID: 890-4607-46

Date Collected: 05/01/23 12:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 08:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 08:28	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	05/03/23 13:22	05/06/23 08:28	1
1,4-Difluorobenzene (Surr)	78		70 - 130	05/03/23 13:22	05/06/23 08:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 13:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/05/23 09:13	05/06/23 13:46	1
o-Terphenyl	80		70 - 130	05/05/23 09:13	05/06/23 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		4.97	mg/Kg			05/06/23 01:01	1

Client Sample ID: FS47

Lab Sample ID: 890-4607-47

Date Collected: 05/01/23 12:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 08:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 08:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 08:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 08:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 08:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	05/03/23 13:22	05/06/23 08:55	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS47

Lab Sample ID: 890-4607-47

Date Collected: 05/01/23 12:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	05/03/23 13:22	05/06/23 08:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/05/23 09:13	05/06/23 14:08	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.96	mg/Kg			05/06/23 01:07	1

Client Sample ID: FS48

Lab Sample ID: 890-4607-48

Date Collected: 05/01/23 12:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 09:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	05/03/23 13:22	05/06/23 09:21	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/03/23 13:22	05/06/23 09:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS48

Lab Sample ID: 890-4607-48

Date Collected: 05/01/23 12:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 14:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 14:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/05/23 09:13	05/06/23 14:30	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 14:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.99	mg/Kg			05/06/23 01:12	1

Client Sample ID: FS49

Lab Sample ID: 890-4607-49

Date Collected: 05/01/23 12:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 09:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130			05/03/23 13:22	05/06/23 09:48	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/03/23 13:22	05/06/23 09:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:13	05/06/23 14:53	1
o-Terphenyl	78		70 - 130			05/05/23 09:13	05/06/23 14:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS49

Lab Sample ID: 890-4607-49

Date Collected: 05/01/23 12:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		5.05	mg/Kg			05/06/23 01:17	1

Client Sample ID: FS50

Lab Sample ID: 890-4607-50

Date Collected: 05/01/23 12:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 10:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130			05/03/23 13:22	05/06/23 10:14	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/03/23 13:22	05/06/23 10:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 15:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			05/05/23 09:13	05/06/23 15:15	1
o-Terphenyl	73		70 - 130			05/05/23 09:13	05/06/23 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		4.98	mg/Kg			05/06/23 01:23	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS51

Lab Sample ID: 890-4607-51

Date Collected: 05/01/23 12:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 11:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 11:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 11:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 11:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 11:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 11:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/03/23 13:22	05/06/23 11:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/03/23 13:22	05/06/23 11:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	05/05/23 09:13	05/06/23 16:00	1
o-Terphenyl	74		70 - 130	05/05/23 09:13	05/06/23 16:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	268		5.00	mg/Kg			05/06/23 01:28	1

Client Sample ID: FS52

Lab Sample ID: 890-4607-52

Date Collected: 05/01/23 12:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 12:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 12:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 12:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 12:26	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/03/23 13:22	05/06/23 12:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS52

Lab Sample ID: 890-4607-52

Date Collected: 05/01/23 12:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130	05/03/23 13:22	05/06/23 12:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 16:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 16:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 16:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:13	05/06/23 16:21	1
o-Terphenyl	77		70 - 130			05/05/23 09:13	05/06/23 16:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.04	mg/Kg			05/06/23 01:44	1

Client Sample ID: FS53

Lab Sample ID: 890-4607-53

Date Collected: 05/01/23 12:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 12:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 12:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 12:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 12:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 12:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	05/03/23 13:22	05/06/23 12:52	1
1,4-Difluorobenzene (Surr)	74		70 - 130	05/03/23 13:22	05/06/23 12:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS53

Lab Sample ID: 890-4607-53

Date Collected: 05/01/23 12:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 16:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:13	05/06/23 16:43	1
o-Terphenyl	78		70 - 130			05/05/23 09:13	05/06/23 16:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		4.99	mg/Kg			05/06/23 01:49	1

Client Sample ID: FS54

Lab Sample ID: 890-4607-54

Date Collected: 05/01/23 12:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130			05/03/23 13:22	05/06/23 13:18	1
1,4-Difluorobenzene (Surr)	79		70 - 130			05/03/23 13:22	05/06/23 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 17:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 17:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:13	05/06/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 09:13	05/06/23 17:05	1
o-Terphenyl	77		70 - 130			05/05/23 09:13	05/06/23 17:05	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS54

Lab Sample ID: 890-4607-54

Date Collected: 05/01/23 12:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		5.01	mg/Kg			05/06/23 02:05	1

Client Sample ID: FS55

Lab Sample ID: 890-4607-55

Date Collected: 05/01/23 12:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 13:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130			05/03/23 13:22	05/06/23 13:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/03/23 13:22	05/06/23 13:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:13	05/06/23 17:26	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		5.04	mg/Kg			05/06/23 02:11	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS56

Lab Sample ID: 890-4607-56

Date Collected: 05/01/23 12:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 14:10	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 14:10	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 14:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 14:10	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:22	05/06/23 14:10	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:22	05/06/23 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130	05/03/23 13:22	05/06/23 14:10	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/23 13:22	05/06/23 14:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/05/23 09:13	05/06/23 17:47	1
o-Terphenyl	82		70 - 130	05/05/23 09:13	05/06/23 17:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.7		5.05	mg/Kg			05/06/23 02:16	1

Client Sample ID: FS57

Lab Sample ID: 890-4607-57

Date Collected: 05/01/23 13:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 14:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 14:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 14:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 14:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	05/03/23 13:22	05/06/23 14:36	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS57

Lab Sample ID: 890-4607-57

Date Collected: 05/01/23 13:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	05/03/23 13:22	05/06/23 14:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:13	05/06/23 18:09	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.9		4.97	mg/Kg			05/06/23 02:22	1

Client Sample ID: FS58

Lab Sample ID: 890-4607-58

Date Collected: 05/01/23 13:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 15:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 15:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 15:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 15:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:22	05/06/23 15:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:22	05/06/23 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130	05/03/23 13:22	05/06/23 15:02	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/03/23 13:22	05/06/23 15:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS58

Lab Sample ID: 890-4607-58

Date Collected: 05/01/23 13:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/05/23 09:13	05/06/23 18:30	1
o-Terphenyl	79		70 - 130			05/05/23 09:13	05/06/23 18:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	237		4.98	mg/Kg			05/06/23 02:27	1

Client Sample ID: FS59

Lab Sample ID: 890-4607-59

Date Collected: 05/01/23 13:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:22	05/06/23 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130			05/03/23 13:22	05/06/23 15:28	1
1,4-Difluorobenzene (Surr)	85		70 - 130			05/03/23 13:22	05/06/23 15:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:13	05/06/23 18:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			05/05/23 09:13	05/06/23 18:52	1
o-Terphenyl	81		70 - 130			05/05/23 09:13	05/06/23 18:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS59

Lab Sample ID: 890-4607-59

Date Collected: 05/01/23 13:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.00	mg/Kg			05/06/23 02:32	1

Client Sample ID: FS60

Lab Sample ID: 890-4607-60

Date Collected: 05/01/23 13:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:22	05/06/23 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130			05/03/23 13:22	05/06/23 15:54	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/03/23 13:22	05/06/23 15:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			05/05/23 09:13	05/06/23 19:13	1
o-Terphenyl	84		70 - 130			05/05/23 09:13	05/06/23 19:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.8		4.96	mg/Kg			05/06/23 02:38	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS61

Lab Sample ID: 890-4607-61

Date Collected: 05/01/23 13:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/06/23 19:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/06/23 19:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/06/23 19:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:23	05/06/23 19:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/06/23 19:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:23	05/06/23 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	05/03/23 13:23	05/06/23 19:45	1
1,4-Difluorobenzene (Surr)	76		70 - 130	05/03/23 13:23	05/06/23 19:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 18:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/05/23 13:58	05/05/23 18:33	1
o-Terphenyl	114		70 - 130	05/05/23 13:58	05/05/23 18:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		4.99	mg/Kg			05/06/23 06:24	1

Client Sample ID: FS62

Lab Sample ID: 890-4607-62

Date Collected: 05/01/23 13:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 20:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 20:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 20:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 20:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 20:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	05/03/23 13:23	05/06/23 20:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS62

Lab Sample ID: 890-4607-62

Date Collected: 05/01/23 13:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	05/03/23 13:23	05/06/23 20:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 19:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 19:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/05/23 13:58	05/05/23 19:35	1
o-Terphenyl	112		70 - 130			05/05/23 13:58	05/05/23 19:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		5.00	mg/Kg			05/06/23 06:40	1

Client Sample ID: FS63

Lab Sample ID: 890-4607-63

Date Collected: 05/01/23 13:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 20:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 20:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 20:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/06/23 20:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 20:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/06/23 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	05/03/23 13:23	05/06/23 20:36	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/03/23 13:23	05/06/23 20:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS63

Lab Sample ID: 890-4607-63

Date Collected: 05/01/23 13:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 19:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			05/05/23 13:58	05/05/23 19:56	1
o-Terphenyl	110		70 - 130			05/05/23 13:58	05/05/23 19:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		5.00	mg/Kg			05/06/23 06:45	1

Client Sample ID: FS64

Lab Sample ID: 890-4607-64

Date Collected: 05/01/23 13:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130			05/03/23 13:23	05/06/23 21:02	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/03/23 13:23	05/06/23 21:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 20:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 20:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/05/23 13:58	05/05/23 20:18	1
o-Terphenyl	109		70 - 130			05/05/23 13:58	05/05/23 20:18	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS64

Lab Sample ID: 890-4607-64

Date Collected: 05/01/23 13:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	240		5.04	mg/Kg			05/06/23 06:51	1

Client Sample ID: FS65

Lab Sample ID: 890-4607-65

Date Collected: 05/01/23 13:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:23	05/06/23 21:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			05/03/23 13:23	05/06/23 21:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/03/23 13:23	05/06/23 21:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 20:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 13:58	05/05/23 20:40	1
o-Terphenyl	116		70 - 130			05/05/23 13:58	05/05/23 20:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		4.97	mg/Kg			05/06/23 06:56	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS66

Lab Sample ID: 890-4607-66

Date Collected: 05/01/23 13:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/06/23 21:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/06/23 21:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/06/23 21:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/03/23 13:23	05/06/23 21:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/06/23 21:54	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/03/23 13:23	05/06/23 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	05/03/23 13:23	05/06/23 21:54	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/03/23 13:23	05/06/23 21:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/05/23 13:58	05/05/23 21:01	1
o-Terphenyl	112		70 - 130	05/05/23 13:58	05/05/23 21:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		4.96	mg/Kg			05/06/23 07:12	1

Client Sample ID: FS67

Lab Sample ID: 890-4607-67

Date Collected: 05/01/23 13:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 22:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 22:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 22:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/06/23 22:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 22:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/06/23 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	05/03/23 13:23	05/06/23 22:20	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS67

Lab Sample ID: 890-4607-67

Date Collected: 05/01/23 13:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	82		70 - 130	05/03/23 13:23	05/06/23 22:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 21:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 21:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 13:58	05/05/23 21:22	1
o-Terphenyl	117		70 - 130			05/05/23 13:58	05/05/23 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		5.02	mg/Kg			05/06/23 07:18	1

Client Sample ID: FS68

Lab Sample ID: 890-4607-68

Date Collected: 05/01/23 13:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 22:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 22:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 22:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 22:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 22:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	05/03/23 13:23	05/06/23 22:46	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/03/23 13:23	05/06/23 22:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS68

Lab Sample ID: 890-4607-68

Date Collected: 05/01/23 13:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 13:58	05/05/23 21:43	1
o-Terphenyl	116		70 - 130			05/05/23 13:58	05/05/23 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		5.01	mg/Kg			05/06/23 07:23	1

Client Sample ID: FS69

Lab Sample ID: 890-4607-69

Date Collected: 05/01/23 14:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/06/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130			05/03/23 13:23	05/06/23 23:11	1
1,4-Difluorobenzene (Surr)	82		70 - 130			05/03/23 13:23	05/06/23 23:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			05/05/23 13:58	05/05/23 22:04	1
o-Terphenyl	121		70 - 130			05/05/23 13:58	05/05/23 22:04	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS69

Lab Sample ID: 890-4607-69

Date Collected: 05/01/23 14:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		4.99	mg/Kg			05/06/23 07:28	1

Client Sample ID: FS70

Lab Sample ID: 890-4607-70

Date Collected: 05/01/23 14:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:23	05/06/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			05/03/23 13:23	05/06/23 23:37	1
1,4-Difluorobenzene (Surr)	80		70 - 130			05/03/23 13:23	05/06/23 23:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 13:58	05/05/23 22:25	1
o-Terphenyl	117		70 - 130			05/05/23 13:58	05/05/23 22:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	303		4.99	mg/Kg			05/06/23 07:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS71

Lab Sample ID: 890-4607-71

Date Collected: 05/01/23 14:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 01:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 01:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 01:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 01:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 01:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	05/03/23 13:23	05/07/23 01:20	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	05/03/23 13:23	05/07/23 01:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 23:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 23:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/05/23 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/05/23 13:58	05/05/23 23:07	1
o-Terphenyl	111		70 - 130	05/05/23 13:58	05/05/23 23:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	295		4.99	mg/Kg			05/06/23 07:39	1

Client Sample ID: FS72

Lab Sample ID: 890-4607-72

Date Collected: 05/01/23 14:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 01:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 01:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 01:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/07/23 01:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 01:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/07/23 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	05/03/23 13:23	05/07/23 01:46	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS72

Lab Sample ID: 890-4607-72

Date Collected: 05/01/23 14:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	05/03/23 13:23	05/07/23 01:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 23:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 13:58	05/05/23 23:28	1
o-Terphenyl	112		70 - 130			05/05/23 13:58	05/05/23 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		4.97	mg/Kg			05/06/23 07:55	1

Client Sample ID: FS73

Lab Sample ID: 890-4607-73

Date Collected: 05/01/23 14:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/07/23 02:11	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/07/23 02:11	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/07/23 02:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:23	05/07/23 02:11	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:23	05/07/23 02:11	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:23	05/07/23 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	05/03/23 13:23	05/07/23 02:11	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/03/23 13:23	05/07/23 02:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 11:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS73

Lab Sample ID: 890-4607-73

Date Collected: 05/01/23 14:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 23:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 23:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/05/23 23:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/05/23 13:58	05/05/23 23:49	1
o-Terphenyl	111		70 - 130			05/05/23 13:58	05/05/23 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		5.05	mg/Kg			05/06/23 08:00	1

Client Sample ID: FS74

Lab Sample ID: 890-4607-74

Date Collected: 05/01/23 14:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/03/23 13:23	05/07/23 02:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130			05/03/23 13:23	05/07/23 02:37	1
1,4-Difluorobenzene (Surr)	84		70 - 130			05/03/23 13:23	05/07/23 02:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 00:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 00:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 00:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 13:58	05/06/23 00:11	1
o-Terphenyl	116		70 - 130			05/05/23 13:58	05/06/23 00:11	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS74

Lab Sample ID: 890-4607-74

Date Collected: 05/01/23 14:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		5.04	mg/Kg			05/06/23 08:16	1

Client Sample ID: FS75

Lab Sample ID: 890-4607-75

Date Collected: 05/01/23 14:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 03:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130			05/03/23 13:23	05/07/23 03:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130			05/03/23 13:23	05/07/23 03:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/06/23 00:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/06/23 00:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/06/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/05/23 13:58	05/06/23 00:32	1
o-Terphenyl	110		70 - 130			05/05/23 13:58	05/06/23 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		5.04	mg/Kg			05/06/23 08:22	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS76

Lab Sample ID: 890-4607-76

Date Collected: 05/01/23 14:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:23	05/07/23 03:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:23	05/07/23 03:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:23	05/07/23 03:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:23	05/07/23 03:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:23	05/07/23 03:28	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:23	05/07/23 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130	05/03/23 13:23	05/07/23 03:28	1
1,4-Difluorobenzene (Surr)	75		70 - 130	05/03/23 13:23	05/07/23 03:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.3		49.8	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 00:53	1
Diesel Range Organics (Over C10-C28)	75.3		49.8	mg/Kg		05/05/23 13:58	05/06/23 00:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/05/23 13:58	05/06/23 00:53	1
o-Terphenyl	112		70 - 130	05/05/23 13:58	05/06/23 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		5.01	mg/Kg			05/06/23 08:27	1

Client Sample ID: FS77

Lab Sample ID: 890-4607-77

Date Collected: 05/01/23 14:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 03:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 03:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 03:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/03/23 13:23	05/07/23 03:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:23	05/07/23 03:54	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/03/23 13:23	05/07/23 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	05/03/23 13:23	05/07/23 03:54	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS77

Lab Sample ID: 890-4607-77

Date Collected: 05/01/23 14:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	05/03/23 13:23	05/07/23 03:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/05/23 13:58	05/06/23 01:14	1
o-Terphenyl	114		70 - 130			05/05/23 13:58	05/06/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		4.98	mg/Kg			05/06/23 08:33	1

Client Sample ID: FS78

Lab Sample ID: 890-4607-78

Date Collected: 05/01/23 14:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 04:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 04:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 04:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/07/23 04:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/07/23 04:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:23	05/07/23 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130	05/03/23 13:23	05/07/23 04:19	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/03/23 13:23	05/07/23 04:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS78

Lab Sample ID: 890-4607-78

Date Collected: 05/01/23 14:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 01:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 01:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/05/23 13:58	05/06/23 01:36	1
o-Terphenyl	112		70 - 130			05/05/23 13:58	05/06/23 01:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		4.99	mg/Kg			05/06/23 08:38	1

Client Sample ID: FS79

Lab Sample ID: 890-4607-79

Date Collected: 05/01/23 14:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130			05/03/23 13:23	05/07/23 04:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130			05/03/23 13:23	05/07/23 04:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 13:58	05/06/23 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/05/23 13:58	05/06/23 01:57	1
o-Terphenyl	116		70 - 130			05/05/23 13:58	05/06/23 01:57	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS79

Lab Sample ID: 890-4607-79

Date Collected: 05/01/23 14:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.01	mg/Kg			05/06/23 08:43	1

Client Sample ID: FS80

Lab Sample ID: 890-4607-80

Date Collected: 05/01/23 14:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:23	05/07/23 05:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			05/03/23 13:23	05/07/23 05:10	1
1,4-Difluorobenzene (Surr)	77		70 - 130			05/03/23 13:23	05/07/23 05:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 11:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 02:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 02:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 13:58	05/06/23 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			05/05/23 13:58	05/06/23 02:19	1
o-Terphenyl	107		70 - 130			05/05/23 13:58	05/06/23 02:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		4.95	mg/Kg			05/06/23 08:49	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS81

Lab Sample ID: 890-4607-81

Date Collected: 05/01/23 15:00

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		05/03/23 13:24	05/06/23 14:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 14:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 14:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:24	05/06/23 14:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 14:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:24	05/06/23 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/03/23 13:24	05/06/23 14:19	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/03/23 13:24	05/06/23 14:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 11:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 11:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	05/05/23 09:19	05/06/23 11:08	1
o-Terphenyl	133	S1+	70 - 130	05/05/23 09:19	05/06/23 11:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.5		5.01	mg/Kg			05/08/23 16:03	1

Client Sample ID: FS82

Lab Sample ID: 890-4607-82

Date Collected: 05/01/23 15:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		05/03/23 13:24	05/06/23 14:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 14:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 14:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 14:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 14:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	05/03/23 13:24	05/06/23 14:39	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS82

Lab Sample ID: 890-4607-82

Date Collected: 05/01/23 15:05

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	05/03/23 13:24	05/06/23 14:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			05/05/23 09:19	05/06/23 12:17	1
o-Terphenyl	101		70 - 130			05/05/23 09:19	05/06/23 12:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.96	mg/Kg			05/05/23 21:36	1

Client Sample ID: FS83

Lab Sample ID: 890-4607-83

Date Collected: 05/01/23 15:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		05/03/23 13:24	05/06/23 15:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 15:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 15:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 15:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 15:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	05/03/23 13:24	05/06/23 15:00	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/03/23 13:24	05/06/23 15:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 15:13	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS83

Lab Sample ID: 890-4607-83

Date Collected: 05/01/23 15:10

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 12:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/05/23 09:19	05/06/23 12:39	1
o-Terphenyl	111		70 - 130			05/05/23 09:19	05/06/23 12:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.00	mg/Kg			05/05/23 21:41	1

Client Sample ID: FS84

Lab Sample ID: 890-4607-84

Date Collected: 05/01/23 15:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/03/23 13:24	05/06/23 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/03/23 13:24	05/06/23 15:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130			05/03/23 13:24	05/06/23 15:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 13:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 13:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			05/05/23 09:19	05/06/23 13:02	1
o-Terphenyl	106		70 - 130			05/05/23 09:19	05/06/23 13:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS84

Lab Sample ID: 890-4607-84

Date Collected: 05/01/23 15:15

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		5.03	mg/Kg			05/05/23 21:57	1

Client Sample ID: FS85

Lab Sample ID: 890-4607-85

Date Collected: 05/01/23 15:20

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/03/23 13:24	05/06/23 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			05/03/23 13:24	05/06/23 15:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/03/23 13:24	05/06/23 15:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 13:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 13:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 13:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			05/05/23 09:19	05/06/23 13:24	1
o-Terphenyl	126		70 - 130			05/05/23 09:19	05/06/23 13:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		5.02	mg/Kg			05/05/23 22:03	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS86

Lab Sample ID: 890-4607-86

Date Collected: 05/01/23 15:25

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		05/03/23 13:24	05/06/23 16:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 16:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 16:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/03/23 13:24	05/06/23 16:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 16:01	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/03/23 13:24	05/06/23 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/03/23 13:24	05/06/23 16:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/03/23 13:24	05/06/23 16:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 13:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 13:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	05/05/23 09:19	05/06/23 13:46	1
o-Terphenyl	108		70 - 130	05/05/23 09:19	05/06/23 13:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		4.96	mg/Kg			05/05/23 22:08	1

Client Sample ID: FS87

Lab Sample ID: 890-4607-87

Date Collected: 05/01/23 15:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 16:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/03/23 13:24	05/06/23 16:22	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS87

Lab Sample ID: 890-4607-87

Date Collected: 05/01/23 15:30

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	05/03/23 13:24	05/06/23 16:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 14:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 14:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			05/05/23 09:19	05/06/23 14:08	1
o-Terphenyl	131	S1+	70 - 130			05/05/23 09:19	05/06/23 14:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		5.04	mg/Kg			05/05/23 22:14	1

Client Sample ID: FS88

Lab Sample ID: 890-4607-88

Date Collected: 05/01/23 15:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 16:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 16:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/03/23 13:24	05/06/23 16:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/03/23 13:24	05/06/23 16:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/08/23 15:13	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS88

Lab Sample ID: 890-4607-88

Date Collected: 05/01/23 15:35

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 14:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 14:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/05/23 09:19	05/06/23 14:30	1
o-Terphenyl	110		70 - 130			05/05/23 09:19	05/06/23 14:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287		5.02	mg/Kg			05/05/23 22:19	1

Client Sample ID: FS89

Lab Sample ID: 890-4607-89

Date Collected: 05/01/23 15:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/03/23 13:24	05/06/23 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			05/03/23 13:24	05/06/23 17:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/03/23 13:24	05/06/23 17:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			05/05/23 09:19	05/06/23 14:53	1
o-Terphenyl	106		70 - 130			05/05/23 09:19	05/06/23 14:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS89

Lab Sample ID: 890-4607-89

Date Collected: 05/01/23 15:40

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	286	F1	4.98	mg/Kg			05/05/23 22:24	1

Client Sample ID: FS90

Lab Sample ID: 890-4607-90

Date Collected: 05/01/23 15:45

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/03/23 13:24	05/06/23 17:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			05/03/23 13:24	05/06/23 17:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130			05/03/23 13:24	05/06/23 17:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 15:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 15:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/05/23 09:19	05/06/23 15:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			05/05/23 09:19	05/06/23 15:15	1
o-Terphenyl	89		70 - 130			05/05/23 09:19	05/06/23 15:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296		4.95	mg/Kg			05/05/23 22:40	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS91

Lab Sample ID: 890-4607-91

Date Collected: 05/01/23 15:50

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198	mg/Kg		05/03/23 13:24	05/06/23 19:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:24	05/06/23 19:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:24	05/06/23 19:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/03/23 13:24	05/06/23 19:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/03/23 13:24	05/06/23 19:14	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/03/23 13:24	05/06/23 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/03/23 13:24	05/06/23 19:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/03/23 13:24	05/06/23 19:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/23 15:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 16:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 16:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/05/23 09:19	05/06/23 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	05/05/23 09:19	05/06/23 16:00	1
o-Terphenyl	120		70 - 130	05/05/23 09:19	05/06/23 16:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		5.05	mg/Kg			05/05/23 22:46	1

Client Sample ID: FS92

Lab Sample ID: 890-4607-92

Date Collected: 05/01/23 15:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		05/03/23 13:24	05/06/23 19:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 19:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 19:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/03/23 13:24	05/06/23 19:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/03/23 13:24	05/06/23 19:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/03/23 13:24	05/06/23 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/03/23 13:24	05/06/23 19:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS92

Lab Sample ID: 890-4607-92

Date Collected: 05/01/23 15:55

Matrix: Solid

Date Received: 05/02/23 11:24

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	05/03/23 13:24	05/06/23 19:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/08/23 16:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/05/23 15:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 20:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	3	S1-	70 - 130			05/04/23 08:54	05/04/23 20:09	1
o-Terphenyl	0.4	S1-	70 - 130			05/04/23 08:54	05/04/23 20:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.98	mg/Kg			05/05/23 23:02	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-27975-A-8-A MS	Matrix Spike	125	98
880-27975-A-8-B MSD	Matrix Spike Duplicate	129	92
890-4607-1	FS01	133 S1+	85
890-4607-1 MS	FS01	127	86
890-4607-1 MSD	FS01	141 S1+	107
890-4607-2	FS02	112	89
890-4607-3	FS03	108	94
890-4607-4	FS04	98	97
890-4607-5	FS05	113	97
890-4607-6	FS06	118	104
890-4607-7	FS07	112	99
890-4607-8	FS08	128	103
890-4607-9	FS09	126	103
890-4607-10	FS10	116	101
890-4607-11	FS11	133 S1+	85
890-4607-12	FS12	148 S1+	92
890-4607-13	FS13	160 S1+	93
890-4607-14	FS14	163 S1+	96
890-4607-15	FS15	147 S1+	82
890-4607-16	FS16	151 S1+	88
890-4607-17	FS17	121	75
890-4607-18	FS18	152 S1+	90
890-4607-19	FS19	147 S1+	81
890-4607-20	FS20	144 S1+	81
890-4607-21	FS21	137 S1+	74
890-4607-21 MS	FS21	135 S1+	83
890-4607-21 MSD	FS21	158 S1+	85
890-4607-22	FS22	173 S1+	85
890-4607-23	FS23	157 S1+	95
890-4607-24	FS24	167 S1+	87
890-4607-25	FS25	161 S1+	90
890-4607-26	FS26	159 S1+	89
890-4607-27	FS27	178 S1+	92
890-4607-28	FS28	140 S1+	80
890-4607-29	FS29	154 S1+	86
890-4607-30	FS30	139 S1+	80
890-4607-31	FS31	133 S1+	79
890-4607-32	FS32	148 S1+	82
890-4607-33	FS33	134 S1+	73
890-4607-34	FS34	160 S1+	81
890-4607-35	FS35	161 S1+	89
890-4607-36	FS36	173 S1+	93
890-4607-37	FS37	157 S1+	74
890-4607-38	FS38	136 S1+	79
890-4607-39	FS39	155 S1+	76
890-4607-40	FS40	165 S1+	84
890-4607-41	FS41	145 S1+	80
890-4607-41 MS	FS41	162 S1+	96
890-4607-41 MSD	FS41	141 S1+	89

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Surrogate Summary

Client: Ensolum

Job ID: 890-4607-1

Project/Site: PLU 28 Big Sinks East

SDG: 03C1558184

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4607-42	FS42	150 S1+	73
890-4607-43	FS43	153 S1+	84
890-4607-44	FS44	153 S1+	81
890-4607-45	FS45	156 S1+	79
890-4607-46	FS46	167 S1+	78
890-4607-47	FS47	147 S1+	79
890-4607-48	FS48	152 S1+	82
890-4607-49	FS49	148 S1+	89
890-4607-50	FS50	155 S1+	80
890-4607-51	FS51	136 S1+	72
890-4607-52	FS52	136 S1+	71
890-4607-53	FS53	153 S1+	74
890-4607-54	FS54	157 S1+	79
890-4607-55	FS55	187 S1+	90
890-4607-56	FS56	173 S1+	85
890-4607-57	FS57	178 S1+	84
890-4607-58	FS58	168 S1+	83
890-4607-59	FS59	161 S1+	85
890-4607-60	FS60	186 S1+	93
890-4607-61	FS61	131 S1+	76
890-4607-61 MS	FS61	151 S1+	91
890-4607-61 MSD	FS61	168 S1+	103
890-4607-62	FS62	144 S1+	83
890-4607-63	FS63	136 S1+	82
890-4607-64	FS64	156 S1+	86
890-4607-65	FS65	159 S1+	90
890-4607-66	FS66	152 S1+	81
890-4607-67	FS67	154 S1+	82
890-4607-68	FS68	152 S1+	83
890-4607-69	FS69	163 S1+	82
890-4607-70	FS70	153 S1+	80
890-4607-71	FS71	125	68 S1-
890-4607-72	FS72	172 S1+	88
890-4607-73	FS73	150 S1+	81
890-4607-74	FS74	169 S1+	84
890-4607-75	FS75	158 S1+	89
890-4607-76	FS76	162 S1+	75
890-4607-77	FS77	166 S1+	88
890-4607-78	FS78	161 S1+	90
890-4607-79	FS79	164 S1+	86
890-4607-80	FS80	153 S1+	77
890-4607-81	FS81	95	90
890-4607-81 MS	FS81	119	95
890-4607-81 MSD	FS81	119	95
890-4607-82	FS82	124	97
890-4607-83	FS83	123	94
890-4607-84	FS84	108	95
890-4607-85	FS85	118	99
890-4607-86	FS86	114	98
890-4607-87	FS87	108	98

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Surrogate Summary

Client: Ensolum

Job ID: 890-4607-1

Project/Site: PLU 28 Big Sinks East

SDG: 03C1558184

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4607-88	FS88	107	100
890-4607-89	FS89	120	99
890-4607-90	FS90	118	100
890-4607-91	FS91	101	99
890-4607-92	FS92	116	104
LCS 880-52516/1-A	Lab Control Sample	119	84
LCS 880-52517/1-A	Lab Control Sample	114	83
LCS 880-52518/1-A	Lab Control Sample	125	79
LCS 880-52519/1-A	Lab Control Sample	134 S1+	85
LCS 880-52520/1-A	Lab Control Sample	103	111
LCS 880-52636/1-A	Lab Control Sample	114	100
LCSD 880-52516/2-A	Lab Control Sample Dup	108	81
LCSD 880-52517/2-A	Lab Control Sample Dup	120	72
LCSD 880-52518/2-A	Lab Control Sample Dup	119	69 S1-
LCSD 880-52519/2-A	Lab Control Sample Dup	136 S1+	79
LCSD 880-52520/2-A	Lab Control Sample Dup	118	108
LCSD 880-52636/2-A	Lab Control Sample Dup	121	104
MB 880-52516/5-A	Method Blank	76	81
MB 880-52517/5-A	Method Blank	81	80
MB 880-52518/5-A	Method Blank	84	79
MB 880-52519/5-A	Method Blank	85	79
MB 880-52520/5-A	Method Blank	101	93
MB 880-52593/5-A	Method Blank	97	114
MB 880-52636/5-A	Method Blank	97	109

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-27935-A-21-B MS	Matrix Spike	114	125
880-27935-A-21-C MSD	Matrix Spike Duplicate	128	137 S1+
890-4607-1	FS01	126	138 S1+
890-4607-1 MS	FS01	107	107
890-4607-1 MSD	FS01	104	107
890-4607-2	FS02	97	106
890-4607-3	FS03	102	112
890-4607-4	FS04	107	114
890-4607-5	FS05	100	106
890-4607-6	FS06	99	109
890-4607-7	FS07	100	108
890-4607-8	FS08	103	113
890-4607-9	FS09	117	127
890-4607-10	FS10	103	114
890-4607-11	FS11	101	112
890-4607-12	FS12	115	123

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Surrogate Summary

Client: Ensolum

Job ID: 890-4607-1

Project/Site: PLU 28 Big Sinks East

SDG: 03C1558184

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4607-13	FS13	103	111
890-4607-14	FS14	109	117
890-4607-15	FS15	97	104
890-4607-16	FS16	104	114
890-4607-17	FS17	102	111
890-4607-18	FS18	104	114
890-4607-19	FS19	102	113
890-4607-20	FS20	99	109
890-4607-21	FS21	220 S1+	230 S1+
890-4607-21 MS	FS21	198 S1+	189 S1+
890-4607-21 MSD	FS21	196 S1+	186 S1+
890-4607-22	FS22	206 S1+	217 S1+
890-4607-23	FS23	217 S1+	225 S1+
890-4607-24	FS24	230 S1+	243 S1+
890-4607-25	FS25	207 S1+	216 S1+
890-4607-26	FS26	223 S1+	236 S1+
890-4607-27	FS27	217 S1+	227 S1+
890-4607-28	FS28	211 S1+	221 S1+
890-4607-29	FS29	201 S1+	211 S1+
890-4607-30	FS30	209 S1+	218 S1+
890-4607-31	FS31	208 S1+	219 S1+
890-4607-32	FS32	207 S1+	216 S1+
890-4607-33	FS33	220 S1+	217 S1+
890-4607-34	FS34	224 S1+	216 S1+
890-4607-35	FS35	227 S1+	220 S1+
890-4607-36	FS36	221 S1+	216 S1+
890-4607-37	FS37	210 S1+	201 S1+
890-4607-38	FS38	256 S1+	246 S1+
890-4607-39	FS39	227 S1+	217 S1+
890-4607-40	FS40	226 S1+	218 S1+
890-4607-41	FS41	104	78
890-4607-41 MS	FS41	100	70
890-4607-41 MSD	FS41	95	66 S1-
890-4607-42	FS42	94	72
890-4607-43	FS43	102	78
890-4607-44	FS44	106	81
890-4607-45	FS45	104	79
890-4607-46	FS46	106	80
890-4607-47	FS47	104	79
890-4607-48	FS48	104	79
890-4607-49	FS49	103	78
890-4607-50	FS50	96	73
890-4607-51	FS51	98	74
890-4607-52	FS52	103	77
890-4607-53	FS53	103	78
890-4607-54	FS54	102	77
890-4607-55	FS55	103	79
890-4607-56	FS56	107	82
890-4607-57	FS57	103	79
890-4607-58	FS58	104	79

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Surrogate Summary

Client: Ensolum

Job ID: 890-4607-1

Project/Site: PLU 28 Big Sinks East

SDG: 03C1558184

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4607-59	FS59	105	81
890-4607-60	FS60	109	84
890-4607-61	FS61	99	114
890-4607-61 MS	FS61	97	100
890-4607-61 MSD	FS61	98	101
890-4607-62	FS62	101	112
890-4607-63	FS63	99	110
890-4607-64	FS64	98	109
890-4607-65	FS65	103	116
890-4607-66	FS66	100	112
890-4607-67	FS67	103	117
890-4607-68	FS68	103	116
890-4607-69	FS69	106	121
890-4607-70	FS70	102	117
890-4607-71	FS71	99	111
890-4607-72	FS72	102	112
890-4607-73	FS73	100	111
890-4607-74	FS74	102	116
890-4607-75	FS75	98	110
890-4607-76	FS76	100	112
890-4607-77	FS77	100	114
890-4607-78	FS78	100	112
890-4607-79	FS79	102	116
890-4607-80	FS80	98	107
890-4607-81	FS81	122	133 S1+
890-4607-81 MS	FS81	107	107
890-4607-81 MSD	FS81	110	108
890-4607-82	FS82	94	101
890-4607-83	FS83	103	111
890-4607-84	FS84	97	106
890-4607-85	FS85	126	126
890-4607-86	FS86	100	108
890-4607-87	FS87	125	131 S1+
890-4607-88	FS88	101	110
890-4607-89	FS89	99	106
890-4607-90	FS90	84	89
890-4607-91	FS91	116	120
890-4607-92	FS92	3 S1-	0.4 S1-
LCS 880-52522/2-A	Lab Control Sample	104	116
LCS 880-52568/2-A	Lab Control Sample	124	144 S1+
LCS 880-52640/2-A	Lab Control Sample	111	113
LCS 880-52678/2-A	Lab Control Sample	92	71
LCS 880-52679/2-A	Lab Control Sample	106	113
LCS 880-52712/2-A	Lab Control Sample	112	125
LCSD 880-52522/3-A	Lab Control Sample Dup	114	125
LCSD 880-52568/3-A	Lab Control Sample Dup	115	135 S1+
LCSD 880-52640/3-A	Lab Control Sample Dup	111	111
LCSD 880-52678/3-A	Lab Control Sample Dup	107	81
LCSD 880-52679/3-A	Lab Control Sample Dup	95	105
LCSD 880-52712/3-A	Lab Control Sample Dup	105	114

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
MB 880-52522/1-A	Method Blank	150 S1+	175 S1+
MB 880-52568/1-A	Method Blank	161 S1+	196 S1+
MB 880-52640/1-A	Method Blank	150 S1+	170 S1+
MB 880-52678/1-A	Method Blank	181 S1+	148 S1+
MB 880-52679/1-A	Method Blank	166 S1+	201 S1+
MB 880-52712/1-A	Method Blank	142 S1+	190 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52516/5-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52516

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 11:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 13:19	05/04/23 11:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:19	05/04/23 11:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 13:19	05/04/23 11:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	05/03/23 13:19	05/04/23 11:36	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/03/23 13:19	05/04/23 11:36	1

Lab Sample ID: LCS 880-52516/1-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1166		mg/Kg		117	70 - 130
Toluene	0.100	0.1202		mg/Kg		120	70 - 130
Ethylbenzene	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2172		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1056		mg/Kg		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: LCSD 880-52516/2-A

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	0	35
Toluene	0.100	0.1190		mg/Kg		119	70 - 130	1	35
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2135		mg/Kg		107	70 - 130	2	35
o-Xylene	0.100	0.1027		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 890-4607-1 MS

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1013		mg/Kg		101	70 - 130
Toluene	<0.00200	U	0.0998	0.1090		mg/Kg		109	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 890-4607-1 MS

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.1013		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2042		mg/Kg		102	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09984		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-4607-1 MSD

Matrix: Solid

Analysis Batch: 52564

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 52516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1166		mg/Kg		118	70 - 130	14	35
Toluene	<0.00200	U	0.0990	0.1199		mg/Kg		121	70 - 130	9	35
Ethylbenzene	<0.00200	U	0.0990	0.1133		mg/Kg		114	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2307		mg/Kg		116	70 - 130	12	35
o-Xylene	<0.00200	U	0.0990	0.1129		mg/Kg		114	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-52517/5-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52517

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 16:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 16:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 16:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 13:21	05/05/23 16:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:21	05/05/23 16:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 13:21	05/05/23 16:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	05/03/23 13:21	05/05/23 16:22	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/03/23 13:21	05/05/23 16:22	1

Lab Sample ID: LCS 880-52517/1-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1198		mg/Kg		120	70 - 130
Toluene	0.100	0.1232		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2303		mg/Kg		115	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-52517/1-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1118		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-52517/2-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52517

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	3	35
Toluene	0.100	0.1218		mg/Kg		122	70 - 130	1	35
Ethylbenzene	0.100	0.1097		mg/Kg		110	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2259		mg/Kg		113	70 - 130	2	35
o-Xylene	0.100	0.1092		mg/Kg		109	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	72		70 - 130

Lab Sample ID: 890-4607-21 MS

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 52517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.1083		mg/Kg		109	70 - 130
Toluene	<0.00201	U F1	0.0998	0.1160		mg/Kg		116	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.09651		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.02089	F1	mg/Kg		10	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1089		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-4607-21 MSD

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 52517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1229		mg/Kg		124	70 - 130	13	35
Toluene	<0.00201	U F1	0.0990	0.1318	F1	mg/Kg		133	70 - 130	13	35
Ethylbenzene	<0.00201	U	0.0990	0.1228		mg/Kg		124	70 - 130	24	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.198	0.2499	F2	mg/Kg		126	70 - 130	169	35
o-Xylene	<0.00201	U	0.0990	0.1266		mg/Kg		128	70 - 130	15	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 890-4607-21 MSD

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 52517

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: MB 880-52518/5-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52518

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 13:22	05/06/23 05:50	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	84		70 - 130	05/03/23 13:22	05/06/23 05:50	1			
1,4-Difluorobenzene (Surr)	79		70 - 130	05/03/23 13:22	05/06/23 05:50	1			

Lab Sample ID: LCS 880-52518/1-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52518

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.1144		mg/Kg		114	70 - 130		
Toluene	0.100	0.1138		mg/Kg		114	70 - 130		
Ethylbenzene	0.100	0.09880		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene	0.200	0.2014		mg/Kg		101	70 - 130		
o-Xylene	0.100	0.1005		mg/Kg		100	70 - 130		

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	125		70 - 130						
1,4-Difluorobenzene (Surr)	79		70 - 130						

Lab Sample ID: LCSD 880-52518/2-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52518

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1194		mg/Kg		119	70 - 130	4	35	
Toluene	0.100	0.1218		mg/Kg		122	70 - 130	7	35	
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	7	35	
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130	7	35	
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	7	35	

	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	119		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCSD 880-52518/2-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52518

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130

Lab Sample ID: 890-4607-41 MS

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 52518

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.0998	0.1134		mg/Kg		114	70 - 130
Toluene	<0.00200	U	0.0998	0.1164		mg/Kg		117	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.1002		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2019		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.0998	0.1035		mg/Kg		104	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4607-41 MSD

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 52518

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Benzene	<0.00200	U	0.100	0.1034		mg/Kg		103	70 - 130	35
Toluene	<0.00200	U	0.100	0.1067		mg/Kg		106	70 - 130	35
Ethylbenzene	<0.00200	U	0.100	0.09248		mg/Kg		92	70 - 130	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1855		mg/Kg		92	70 - 130	35
o-Xylene	<0.00200	U	0.100	0.09440		mg/Kg		94	70 - 130	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-52519/5-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52519

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 13:23	05/06/23 19:19	1	

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
4-Bromofluorobenzene (Surr)	85		70 - 130	05/03/23 13:23	05/06/23 19:19	1			
1,4-Difluorobenzene (Surr)	79		70 - 130	05/03/23 13:23	05/06/23 19:19	1			

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-52519/1-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52519

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1147		mg/Kg		115	70 - 130
Toluene	0.100	0.1093		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.09428		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1919		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09565		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-52519/2-A

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52519

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1169		mg/Kg		117	70 - 130	2	35
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.09651		mg/Kg		97	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1970		mg/Kg		99	70 - 130	3	35
o-Xylene	0.100	0.09929		mg/Kg		99	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-4607-61 MS

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS61

Prep Type: Total/NA

Prep Batch: 52519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.1049		mg/Kg		105	70 - 130
Toluene	<0.00201	U	0.0996	0.1042		mg/Kg		105	70 - 130
Ethylbenzene	<0.00201	U	0.0996	0.09612		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1642		mg/Kg		82	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09947		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-4607-61 MSD

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS61

Prep Type: Total/NA

Prep Batch: 52519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.1131		mg/Kg		113	70 - 130	8	35
Toluene	<0.00201	U	0.0998	0.1104		mg/Kg		111	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.0998	0.1047		mg/Kg		105	70 - 130	9	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 890-4607-61 MSD

Matrix: Solid

Analysis Batch: 52693

Client Sample ID: FS61

Prep Type: Total/NA

Prep Batch: 52519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1965		mg/Kg		98	70 - 130	18	35
o-Xylene	<0.00201	U	0.0998	0.1124		mg/Kg		113	70 - 130	12	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	103		70 - 130								

Lab Sample ID: MB 880-52520/5-A

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52520

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/03/23 13:24	05/06/23 13:50	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/03/23 13:24	05/06/23 13:50	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/03/23 13:24	05/06/23 13:50	1

Lab Sample ID: LCS 880-52520/1-A

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.1459	*+	mg/Kg		146	70 - 130	
Toluene	0.100	0.1108		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.09294		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1012		mg/Kg		101	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits					
4-Bromofluorobenzene (Surr)	103		70 - 130					
1,4-Difluorobenzene (Surr)	111		70 - 130					

Lab Sample ID: LCSD 880-52520/2-A

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1478	*+	mg/Kg		148	70 - 130	1	35
Toluene	0.100	0.1148		mg/Kg		115	70 - 130	4	35
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2380		mg/Kg		119	70 - 130	15	35
o-Xylene	0.100	0.1191		mg/Kg		119	70 - 130	16	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4607-81 MS

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: FS81

Prep Type: Total/NA

Prep Batch: 52520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U **	0.100	0.09315		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.08735		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08286		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1954		mg/Kg		97	70 - 130
o-Xylene	<0.00200	U	0.100	0.1011		mg/Kg		101	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-4607-81 MSD

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: FS81

Prep Type: Total/NA

Prep Batch: 52520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U **	0.0990	0.1011		mg/Kg		102	70 - 130	8	35
Toluene	<0.00200	U	0.0990	0.09689		mg/Kg		98	70 - 130	10	35
Ethylbenzene	<0.00200	U	0.0990	0.08900		mg/Kg		89	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2054		mg/Kg		104	70 - 130	5	35
o-Xylene	<0.00200	U	0.0990	0.1052		mg/Kg		106	70 - 130	4	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-52593/5-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52593

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 10:20	05/04/23 15:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 10:20	05/04/23 15:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 10:20	05/04/23 15:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/04/23 10:20	05/04/23 15:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 10:20	05/04/23 15:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/04/23 10:20	05/04/23 15:10	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	97		70 - 130	05/04/23 10:20	05/04/23 15:10	1		
1,4-Difluorobenzene (Surr)	114		70 - 130	05/04/23 10:20	05/04/23 15:10	1		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-52636/5-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52636

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 03:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 03:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 03:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/04/23 15:28	05/05/23 03:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/04/23 15:28	05/05/23 03:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/04/23 15:28	05/05/23 03:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/04/23 15:28	05/05/23 03:31	1
1,4-Difluorobenzene (Surr)	109		70 - 130	05/04/23 15:28	05/05/23 03:31	1

Lab Sample ID: LCS 880-52636/1-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1175		mg/Kg		117	70 - 130
Toluene	0.100	0.1064		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09166		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-52636/2-A

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1301		mg/Kg		130	70 - 130	10	35
Toluene	0.100	0.1203		mg/Kg		120	70 - 130	12	35
Ethylbenzene	0.100	0.1226		mg/Kg		123	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2189		mg/Kg		109	70 - 130	10	35
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-27975-A-8-A MS

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1025		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 880-27975-A-8-A MS

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09961		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1813		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.08931		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-27975-A-8-B MSD

Matrix: Solid

Analysis Batch: 52566

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52636

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1019		mg/Kg		102	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.1023		mg/Kg		103	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.1095		mg/Kg		110	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2006		mg/Kg		101	70 - 130	10	35
o-Xylene	<0.00200	U	0.0996	0.09711		mg/Kg		98	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-52522/1-A

Matrix: Solid

Analysis Batch: 52454

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52522

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/03/23 14:14	05/03/23 21:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	05/03/23 14:14	05/03/23 21:05	1
o-Terphenyl	175	S1+	70 - 130	05/03/23 14:14	05/03/23 21:05	1

Lab Sample ID: LCS 880-52522/2-A

Matrix: Solid

Analysis Batch: 52454

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52522

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.0		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	908.8		mg/Kg		91	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-52522/2-A
Matrix: Solid
Analysis Batch: 52454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52522

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-52522/3-A
Matrix: Solid
Analysis Batch: 52454

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52522

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	887.1		mg/Kg		89	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	937.1		mg/Kg		94	70 - 130	3	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	114										
o-Terphenyl	125										

Lab Sample ID: 890-4607-1 MS
Matrix: Solid
Analysis Batch: 52454

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 52522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	985.8		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	869.9		mg/Kg		87	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	107										
o-Terphenyl	107										

Lab Sample ID: 890-4607-1 MSD
Matrix: Solid
Analysis Batch: 52454

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 52522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	850.9		mg/Kg		85	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	857.3		mg/Kg		86	70 - 130	1	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	104										
o-Terphenyl	107										

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-52568/1-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52568

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 08:54	05/04/23 08:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130			05/04/23 08:54	05/04/23 08:19	1
o-Terphenyl	196	S1+	70 - 130			05/04/23 08:54	05/04/23 08:19	1

Lab Sample ID: LCS 880-52568/2-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1116		mg/Kg		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	124		70 - 130				
o-Terphenyl	144	S1+	70 - 130				

Lab Sample ID: LCSD 880-52568/3-A

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1167		mg/Kg		117	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	992.3		mg/Kg		99	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	135	S1+	70 - 130						

Lab Sample ID: 880-27935-A-21-B MS

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	1000	908.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1002		mg/Kg		97	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 880-27935-A-21-B MS

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52568

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 880-27935-A-21-C MSD

Matrix: Solid

Analysis Batch: 52589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	998	1216	F2	mg/Kg		120	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1117		mg/Kg		109	70 - 130	11	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	137	S1+	70 - 130

Lab Sample ID: MB 880-52640/1-A

Matrix: Solid

Analysis Batch: 52763

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52640

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 08:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 08:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/04/23 15:56	05/06/23 08:32	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	150	S1+	70 - 130	05/04/23 15:56	05/06/23 08:32	1
o-Terphenyl	170	S1+	70 - 130	05/04/23 15:56	05/06/23 08:32	1

Lab Sample ID: LCS 880-52640/2-A

Matrix: Solid

Analysis Batch: 52763

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	902.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	804.7		mg/Kg		80	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	113		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCSD 880-52640/3-A

Matrix: Solid

Analysis Batch: 52763

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52640

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	957.7		mg/Kg		96	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	859.1		mg/Kg		86	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-4607-21 MS

Matrix: Solid

Analysis Batch: 52763

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 52640

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1251		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1797	F1	mg/Kg		178	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	198	S1+	70 - 130								
o-Terphenyl	189	S1+	70 - 130								

Lab Sample ID: 890-4607-21 MSD

Matrix: Solid

Analysis Batch: 52763

Client Sample ID: FS21

Prep Type: Total/NA

Prep Batch: 52640

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1249		mg/Kg		123	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1802	F1	mg/Kg		179	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	196	S1+	70 - 130								
o-Terphenyl	186	S1+	70 - 130								

Lab Sample ID: MB 880-52678/1-A

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52678

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:13	05/06/23 08:27	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: MB 880-52678/1-A

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52678

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	181	S1+	70 - 130	05/05/23 09:13	05/06/23 08:27	1				
o-Terphenyl	148	S1+	70 - 130	05/05/23 09:13	05/06/23 08:27	1				

Lab Sample ID: LCS 880-52678/2-A

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52678

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	869.0		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	953.4		mg/Kg		95	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: LCSD 880-52678/3-A

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52678

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1041		mg/Kg		104	70 - 130	18	20	
Diesel Range Organics (Over C10-C28)			1000	1019		mg/Kg		102	70 - 130	7	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	107		70 - 130									
o-Terphenyl	81		70 - 130									

Lab Sample ID: 890-4607-41 MS

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 52678

	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	997	834.8		mg/Kg		82	70 - 130			
Diesel Range Organics (Over C10-C28)	93.9	F1	997	711.0	F1	mg/Kg		62	70 - 130			

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

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 890-4607-41 MSD

Matrix: Solid

Analysis Batch: 52759

Client Sample ID: FS41

Prep Type: Total/NA

Prep Batch: 52678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	808.2		mg/Kg		80	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	93.9	F1	996	675.2	F1	mg/Kg		58	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	66	S1-	70 - 130								

Lab Sample ID: MB 880-52679/1-A

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52679

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 08:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 08:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 09:19	05/06/23 08:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130			05/05/23 09:19	05/06/23 08:27	1
o-Terphenyl	201	S1+	70 - 130			05/05/23 09:19	05/06/23 08:27	1

Lab Sample ID: LCS 880-52679/2-A

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52679

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	931.6		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	722.2		mg/Kg		72	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: LCSD 880-52679/3-A

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52679

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	807.2		mg/Kg		81	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	809.8		mg/Kg		81	70 - 130	11	20

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCSD 880-52679/3-A

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52679

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-4607-81 MS

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: FS81

Prep Type: Total/NA

Prep Batch: 52679

	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	999	841.4		mg/Kg		83	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	873.6		mg/Kg		85	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	107		70 - 130							
o-Terphenyl	107		70 - 130							

Lab Sample ID: 890-4607-81 MSD

Matrix: Solid

Analysis Batch: 52761

Client Sample ID: FS81

Prep Type: Total/NA

Prep Batch: 52679

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	882.0		mg/Kg		87	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	895.3		mg/Kg		87	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	110		70 - 130									
o-Terphenyl	108		70 - 130									

Lab Sample ID: MB 880-52712/1-A

Matrix: Solid

Analysis Batch: 52729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52712

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 16:03	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 16:03	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/05/23 13:58	05/05/23 16:03	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	142	S1+	70 - 130			05/05/23 13:58	05/05/23 16:03	1		
o-Terphenyl	190	S1+	70 - 130			05/05/23 13:58	05/05/23 16:03	1		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: LCS 880-52712/2-A

Matrix: Solid

Analysis Batch: 52729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52712

Analyte			Spike	LCS	LCS			%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1001		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	990.8		mg/Kg		99	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	112		70 - 130							
o-Terphenyl	125		70 - 130							

Lab Sample ID: LCSD 880-52712/3-A

Matrix: Solid

Analysis Batch: 52729

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52712

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	985.0		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	920.7		mg/Kg		92	70 - 130	7	20
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	105		70 - 130								
o-Terphenyl	114		70 - 130								

Lab Sample ID: 890-4607-61 MS

Matrix: Solid

Analysis Batch: 52729

Client Sample ID: FS61

Prep Type: Total/NA

Prep Batch: 52712

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	991.0		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	968.8		mg/Kg		93	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	100		70 - 130								

Lab Sample ID: 890-4607-61 MSD

Matrix: Solid

Analysis Batch: 52729

Client Sample ID: FS61

Prep Type: Total/NA

Prep Batch: 52712

	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	<49.9	U	999	995.7		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1014		mg/Kg		98	70 - 130	5	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Lab Sample ID: 890-4607-61 MSD
Matrix: Solid
Analysis Batch: 52729

Client Sample ID: FS61
Prep Type: Total/NA
Prep Batch: 52712

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52542/1-A
Matrix: Solid
Analysis Batch: 52772

Client Sample ID: Method Blank
Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			05/06/23 06:08		1

Lab Sample ID: LCS 880-52542/2-A
Matrix: Solid
Analysis Batch: 52772

Client Sample ID: Lab Control Sample
Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	255.3		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-52542/3-A
Matrix: Solid
Analysis Batch: 52772

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

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-4607-61 MS
Matrix: Solid
Analysis Batch: 52772

Client Sample ID: FS61
Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	241		250	474.0		mg/Kg		93	90 - 110		

Lab Sample ID: 890-4607-61 MSD
Matrix: Solid
Analysis Batch: 52772

Client Sample ID: FS61
Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	241		250	474.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-4607-71 MS
Matrix: Solid
Analysis Batch: 52772

Client Sample ID: FS71
Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	295		250	534.6		mg/Kg		96	90 - 110		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4607-71 MSD

Matrix: Solid

Analysis Batch: 52772

Client Sample ID: FS71

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	295		250	535.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-52543/1-A

Matrix: Solid

Analysis Batch: 52773

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/05/23 20:53	1

Lab Sample ID: LCS 880-52543/2-A

Matrix: Solid

Analysis Batch: 52773

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-52543/3-A

Matrix: Solid

Analysis Batch: 52773

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4607-89 MS

Matrix: Solid

Analysis Batch: 52773

Client Sample ID: FS89

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	286	F1	249	505.4	F1	mg/Kg		88	90 - 110

Lab Sample ID: 890-4607-89 MSD

Matrix: Solid

Analysis Batch: 52773

Client Sample ID: FS89

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	286	F1	249	505.3	F1	mg/Kg		88	90 - 110	0	20

Lab Sample ID: MB 880-52541/1-A

Matrix: Solid

Analysis Batch: 52774

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/05/23 23:57	1

Lab Sample ID: LCS 880-52541/2-A

Matrix: Solid

Analysis Batch: 52774

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.1		mg/Kg		99	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-52541/3-A
Matrix: Solid
Analysis Batch: 52774

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.8		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4607-41 MS
Matrix: Solid
Analysis Batch: 52774

Client Sample ID: FS41
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	220	F1	248	436.7	F1	mg/Kg		87	90 - 110		

Lab Sample ID: 890-4607-41 MSD
Matrix: Solid
Analysis Batch: 52774

Client Sample ID: FS41
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	220	F1	248	437.1	F1	mg/Kg		87	90 - 110	0	20

Lab Sample ID: 890-4607-51 MS
Matrix: Solid
Analysis Batch: 52774

Client Sample ID: FS51
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	268		250	507.8		mg/Kg		96	90 - 110		

Lab Sample ID: 890-4607-51 MSD
Matrix: Solid
Analysis Batch: 52774

Client Sample ID: FS51
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	268		250	508.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: MB 880-52539/1-A
Matrix: Solid
Analysis Batch: 52775

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/06/23 12:40	1

Lab Sample ID: LCS 880-52539/2-A
Matrix: Solid
Analysis Batch: 52775

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	243.4		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-52539/3-A
Matrix: Solid
Analysis Batch: 52775

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.1		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4607-1 MS

Matrix: Solid

Analysis Batch: 52775

Client Sample ID: FS01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	214		249	445.9		mg/Kg		93	90 - 110		

Lab Sample ID: 890-4607-1 MSD

Matrix: Solid

Analysis Batch: 52775

Client Sample ID: FS01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	214		249	445.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-4607-11 MS

Matrix: Solid

Analysis Batch: 52775

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	277		251	509.0		mg/Kg		93	90 - 110		

Lab Sample ID: 890-4607-11 MSD

Matrix: Solid

Analysis Batch: 52775

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	277		251	508.3		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-52540/1-A

Matrix: Solid

Analysis Batch: 52778

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/06/23 13:09	1

Lab Sample ID: LCS 880-52540/2-A

Matrix: Solid

Analysis Batch: 52778

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	257.2		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-52540/3-A

Matrix: Solid

Analysis Batch: 52778

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.5		mg/Kg		99	90 - 110	4	20

Lab Sample ID: 890-4607-21 MS

Matrix: Solid

Analysis Batch: 52778

Client Sample ID: FS21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	197		250	445.2		mg/Kg		100	90 - 110		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4607-21 MSD										Client Sample ID: FS21		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 52778												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	197		250	443.0		mg/Kg		99	90 - 110	0	20	

Lab Sample ID: 890-4607-31 MS										Client Sample ID: FS31		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 52778												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	213		252	459.5		mg/Kg		98	90 - 110			

Lab Sample ID: 890-4607-31 MSD										Client Sample ID: FS31		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 52778												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	213		252	456.1		mg/Kg		96	90 - 110	1	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA

Prep Batch: 52516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	5035	
890-4607-11	FS11	Total/NA	Solid	5035	
890-4607-12	FS12	Total/NA	Solid	5035	
890-4607-13	FS13	Total/NA	Solid	5035	
890-4607-14	FS14	Total/NA	Solid	5035	
890-4607-15	FS15	Total/NA	Solid	5035	
890-4607-16	FS16	Total/NA	Solid	5035	
890-4607-17	FS17	Total/NA	Solid	5035	
890-4607-18	FS18	Total/NA	Solid	5035	
890-4607-19	FS19	Total/NA	Solid	5035	
890-4607-20	FS20	Total/NA	Solid	5035	
MB 880-52516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-1 MS	FS01	Total/NA	Solid	5035	
890-4607-1 MSD	FS01	Total/NA	Solid	5035	

Prep Batch: 52517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Total/NA	Solid	5035	
890-4607-22	FS22	Total/NA	Solid	5035	
890-4607-23	FS23	Total/NA	Solid	5035	
890-4607-24	FS24	Total/NA	Solid	5035	
890-4607-25	FS25	Total/NA	Solid	5035	
890-4607-26	FS26	Total/NA	Solid	5035	
890-4607-27	FS27	Total/NA	Solid	5035	
890-4607-28	FS28	Total/NA	Solid	5035	
890-4607-29	FS29	Total/NA	Solid	5035	
890-4607-30	FS30	Total/NA	Solid	5035	
890-4607-31	FS31	Total/NA	Solid	5035	
890-4607-32	FS32	Total/NA	Solid	5035	
890-4607-33	FS33	Total/NA	Solid	5035	
890-4607-34	FS34	Total/NA	Solid	5035	
890-4607-35	FS35	Total/NA	Solid	5035	
890-4607-36	FS36	Total/NA	Solid	5035	
890-4607-37	FS37	Total/NA	Solid	5035	
890-4607-38	FS38	Total/NA	Solid	5035	
890-4607-39	FS39	Total/NA	Solid	5035	
890-4607-40	FS40	Total/NA	Solid	5035	
MB 880-52517/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52517/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52517/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-21 MS	FS21	Total/NA	Solid	5035	
890-4607-21 MSD	FS21	Total/NA	Solid	5035	

Prep Batch: 52518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-41	FS41	Total/NA	Solid	5035	
890-4607-42	FS42	Total/NA	Solid	5035	
890-4607-43	FS43	Total/NA	Solid	5035	
890-4607-44	FS44	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Prep Batch: 52518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-45	FS45	Total/NA	Solid	5035	
890-4607-46	FS46	Total/NA	Solid	5035	
890-4607-47	FS47	Total/NA	Solid	5035	
890-4607-48	FS48	Total/NA	Solid	5035	
890-4607-49	FS49	Total/NA	Solid	5035	
890-4607-50	FS50	Total/NA	Solid	5035	
890-4607-51	FS51	Total/NA	Solid	5035	
890-4607-52	FS52	Total/NA	Solid	5035	
890-4607-53	FS53	Total/NA	Solid	5035	
890-4607-54	FS54	Total/NA	Solid	5035	
890-4607-55	FS55	Total/NA	Solid	5035	
890-4607-56	FS56	Total/NA	Solid	5035	
890-4607-57	FS57	Total/NA	Solid	5035	
890-4607-58	FS58	Total/NA	Solid	5035	
890-4607-59	FS59	Total/NA	Solid	5035	
890-4607-60	FS60	Total/NA	Solid	5035	
MB 880-52518/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52518/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52518/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-41 MS	FS41	Total/NA	Solid	5035	
890-4607-41 MSD	FS41	Total/NA	Solid	5035	

Prep Batch: 52519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-61	FS61	Total/NA	Solid	5035	
890-4607-62	FS62	Total/NA	Solid	5035	
890-4607-63	FS63	Total/NA	Solid	5035	
890-4607-64	FS64	Total/NA	Solid	5035	
890-4607-65	FS65	Total/NA	Solid	5035	
890-4607-66	FS66	Total/NA	Solid	5035	
890-4607-67	FS67	Total/NA	Solid	5035	
890-4607-68	FS68	Total/NA	Solid	5035	
890-4607-69	FS69	Total/NA	Solid	5035	
890-4607-70	FS70	Total/NA	Solid	5035	
890-4607-71	FS71	Total/NA	Solid	5035	
890-4607-72	FS72	Total/NA	Solid	5035	
890-4607-73	FS73	Total/NA	Solid	5035	
890-4607-74	FS74	Total/NA	Solid	5035	
890-4607-75	FS75	Total/NA	Solid	5035	
890-4607-76	FS76	Total/NA	Solid	5035	
890-4607-77	FS77	Total/NA	Solid	5035	
890-4607-78	FS78	Total/NA	Solid	5035	
890-4607-79	FS79	Total/NA	Solid	5035	
890-4607-80	FS80	Total/NA	Solid	5035	
MB 880-52519/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52519/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52519/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-61 MS	FS61	Total/NA	Solid	5035	
890-4607-61 MSD	FS61	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA

Prep Batch: 52520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Total/NA	Solid	5035	
890-4607-82	FS82	Total/NA	Solid	5035	
890-4607-83	FS83	Total/NA	Solid	5035	
890-4607-84	FS84	Total/NA	Solid	5035	
890-4607-85	FS85	Total/NA	Solid	5035	
890-4607-86	FS86	Total/NA	Solid	5035	
890-4607-87	FS87	Total/NA	Solid	5035	
890-4607-88	FS88	Total/NA	Solid	5035	
890-4607-89	FS89	Total/NA	Solid	5035	
890-4607-90	FS90	Total/NA	Solid	5035	
890-4607-91	FS91	Total/NA	Solid	5035	
890-4607-92	FS92	Total/NA	Solid	5035	
MB 880-52520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52520/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4607-81 MS	FS81	Total/NA	Solid	5035	
890-4607-81 MSD	FS81	Total/NA	Solid	5035	

Analysis Batch: 52564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	8021B	52516
890-4607-11	FS11	Total/NA	Solid	8021B	52516
890-4607-12	FS12	Total/NA	Solid	8021B	52516
890-4607-13	FS13	Total/NA	Solid	8021B	52516
890-4607-14	FS14	Total/NA	Solid	8021B	52516
890-4607-15	FS15	Total/NA	Solid	8021B	52516
890-4607-16	FS16	Total/NA	Solid	8021B	52516
890-4607-17	FS17	Total/NA	Solid	8021B	52516
890-4607-18	FS18	Total/NA	Solid	8021B	52516
890-4607-19	FS19	Total/NA	Solid	8021B	52516
890-4607-20	FS20	Total/NA	Solid	8021B	52516
MB 880-52516/5-A	Method Blank	Total/NA	Solid	8021B	52516
LCS 880-52516/1-A	Lab Control Sample	Total/NA	Solid	8021B	52516
LCSD 880-52516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52516
890-4607-1 MS	FS01	Total/NA	Solid	8021B	52516
890-4607-1 MSD	FS01	Total/NA	Solid	8021B	52516

Analysis Batch: 52566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-2	FS02	Total/NA	Solid	8021B	52636
890-4607-3	FS03	Total/NA	Solid	8021B	52636
890-4607-4	FS04	Total/NA	Solid	8021B	52636
890-4607-5	FS05	Total/NA	Solid	8021B	52636
890-4607-6	FS06	Total/NA	Solid	8021B	52636
890-4607-7	FS07	Total/NA	Solid	8021B	52636
890-4607-8	FS08	Total/NA	Solid	8021B	52636
890-4607-9	FS09	Total/NA	Solid	8021B	52636
890-4607-10	FS10	Total/NA	Solid	8021B	52636
MB 880-52593/5-A	Method Blank	Total/NA	Solid	8021B	52593
MB 880-52636/5-A	Method Blank	Total/NA	Solid	8021B	52636
LCS 880-52636/1-A	Lab Control Sample	Total/NA	Solid	8021B	52636

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Analysis Batch: 52566 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-52636/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52636
880-27975-A-8-A MS	Matrix Spike	Total/NA	Solid	8021B	52636
880-27975-A-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52636

Prep Batch: 52593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52593/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 52636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-2	FS02	Total/NA	Solid	5035	
890-4607-3	FS03	Total/NA	Solid	5035	
890-4607-4	FS04	Total/NA	Solid	5035	
890-4607-5	FS05	Total/NA	Solid	5035	
890-4607-6	FS06	Total/NA	Solid	5035	
890-4607-7	FS07	Total/NA	Solid	5035	
890-4607-8	FS08	Total/NA	Solid	5035	
890-4607-9	FS09	Total/NA	Solid	5035	
890-4607-10	FS10	Total/NA	Solid	5035	
MB 880-52636/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52636/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52636/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27975-A-8-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27975-A-8-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	Total BTEX	
890-4607-2	FS02	Total/NA	Solid	Total BTEX	
890-4607-3	FS03	Total/NA	Solid	Total BTEX	
890-4607-4	FS04	Total/NA	Solid	Total BTEX	
890-4607-5	FS05	Total/NA	Solid	Total BTEX	
890-4607-6	FS06	Total/NA	Solid	Total BTEX	
890-4607-7	FS07	Total/NA	Solid	Total BTEX	
890-4607-8	FS08	Total/NA	Solid	Total BTEX	
890-4607-9	FS09	Total/NA	Solid	Total BTEX	
890-4607-10	FS10	Total/NA	Solid	Total BTEX	
890-4607-11	FS11	Total/NA	Solid	Total BTEX	
890-4607-12	FS12	Total/NA	Solid	Total BTEX	
890-4607-13	FS13	Total/NA	Solid	Total BTEX	
890-4607-14	FS14	Total/NA	Solid	Total BTEX	
890-4607-15	FS15	Total/NA	Solid	Total BTEX	
890-4607-16	FS16	Total/NA	Solid	Total BTEX	
890-4607-17	FS17	Total/NA	Solid	Total BTEX	
890-4607-18	FS18	Total/NA	Solid	Total BTEX	
890-4607-19	FS19	Total/NA	Solid	Total BTEX	
890-4607-20	FS20	Total/NA	Solid	Total BTEX	
890-4607-21	FS21	Total/NA	Solid	Total BTEX	
890-4607-22	FS22	Total/NA	Solid	Total BTEX	
890-4607-23	FS23	Total/NA	Solid	Total BTEX	
890-4607-24	FS24	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Analysis Batch: 52655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-25	FS25	Total/NA	Solid	Total BTEX	
890-4607-26	FS26	Total/NA	Solid	Total BTEX	
890-4607-27	FS27	Total/NA	Solid	Total BTEX	
890-4607-28	FS28	Total/NA	Solid	Total BTEX	
890-4607-29	FS29	Total/NA	Solid	Total BTEX	
890-4607-30	FS30	Total/NA	Solid	Total BTEX	
890-4607-31	FS31	Total/NA	Solid	Total BTEX	
890-4607-32	FS32	Total/NA	Solid	Total BTEX	
890-4607-33	FS33	Total/NA	Solid	Total BTEX	
890-4607-34	FS34	Total/NA	Solid	Total BTEX	
890-4607-35	FS35	Total/NA	Solid	Total BTEX	
890-4607-36	FS36	Total/NA	Solid	Total BTEX	
890-4607-37	FS37	Total/NA	Solid	Total BTEX	
890-4607-38	FS38	Total/NA	Solid	Total BTEX	
890-4607-39	FS39	Total/NA	Solid	Total BTEX	
890-4607-40	FS40	Total/NA	Solid	Total BTEX	
890-4607-41	FS41	Total/NA	Solid	Total BTEX	
890-4607-42	FS42	Total/NA	Solid	Total BTEX	
890-4607-43	FS43	Total/NA	Solid	Total BTEX	
890-4607-44	FS44	Total/NA	Solid	Total BTEX	
890-4607-45	FS45	Total/NA	Solid	Total BTEX	
890-4607-46	FS46	Total/NA	Solid	Total BTEX	
890-4607-47	FS47	Total/NA	Solid	Total BTEX	
890-4607-48	FS48	Total/NA	Solid	Total BTEX	
890-4607-49	FS49	Total/NA	Solid	Total BTEX	
890-4607-50	FS50	Total/NA	Solid	Total BTEX	
890-4607-51	FS51	Total/NA	Solid	Total BTEX	
890-4607-52	FS52	Total/NA	Solid	Total BTEX	
890-4607-53	FS53	Total/NA	Solid	Total BTEX	
890-4607-54	FS54	Total/NA	Solid	Total BTEX	
890-4607-55	FS55	Total/NA	Solid	Total BTEX	
890-4607-56	FS56	Total/NA	Solid	Total BTEX	
890-4607-57	FS57	Total/NA	Solid	Total BTEX	
890-4607-58	FS58	Total/NA	Solid	Total BTEX	
890-4607-59	FS59	Total/NA	Solid	Total BTEX	
890-4607-60	FS60	Total/NA	Solid	Total BTEX	
890-4607-61	FS61	Total/NA	Solid	Total BTEX	
890-4607-62	FS62	Total/NA	Solid	Total BTEX	
890-4607-63	FS63	Total/NA	Solid	Total BTEX	
890-4607-64	FS64	Total/NA	Solid	Total BTEX	
890-4607-65	FS65	Total/NA	Solid	Total BTEX	
890-4607-66	FS66	Total/NA	Solid	Total BTEX	
890-4607-67	FS67	Total/NA	Solid	Total BTEX	
890-4607-68	FS68	Total/NA	Solid	Total BTEX	
890-4607-69	FS69	Total/NA	Solid	Total BTEX	
890-4607-70	FS70	Total/NA	Solid	Total BTEX	
890-4607-71	FS71	Total/NA	Solid	Total BTEX	
890-4607-72	FS72	Total/NA	Solid	Total BTEX	
890-4607-73	FS73	Total/NA	Solid	Total BTEX	
890-4607-74	FS74	Total/NA	Solid	Total BTEX	
890-4607-75	FS75	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Analysis Batch: 52655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-76	FS76	Total/NA	Solid	Total BTEX	
890-4607-77	FS77	Total/NA	Solid	Total BTEX	
890-4607-78	FS78	Total/NA	Solid	Total BTEX	
890-4607-79	FS79	Total/NA	Solid	Total BTEX	
890-4607-80	FS80	Total/NA	Solid	Total BTEX	
890-4607-81	FS81	Total/NA	Solid	Total BTEX	
890-4607-82	FS82	Total/NA	Solid	Total BTEX	
890-4607-83	FS83	Total/NA	Solid	Total BTEX	
890-4607-84	FS84	Total/NA	Solid	Total BTEX	
890-4607-85	FS85	Total/NA	Solid	Total BTEX	
890-4607-86	FS86	Total/NA	Solid	Total BTEX	
890-4607-87	FS87	Total/NA	Solid	Total BTEX	
890-4607-88	FS88	Total/NA	Solid	Total BTEX	
890-4607-89	FS89	Total/NA	Solid	Total BTEX	
890-4607-90	FS90	Total/NA	Solid	Total BTEX	
890-4607-91	FS91	Total/NA	Solid	Total BTEX	
890-4607-92	FS92	Total/NA	Solid	Total BTEX	

Analysis Batch: 52692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Total/NA	Solid	8021B	52520
890-4607-82	FS82	Total/NA	Solid	8021B	52520
890-4607-83	FS83	Total/NA	Solid	8021B	52520
890-4607-84	FS84	Total/NA	Solid	8021B	52520
890-4607-85	FS85	Total/NA	Solid	8021B	52520
890-4607-86	FS86	Total/NA	Solid	8021B	52520
890-4607-87	FS87	Total/NA	Solid	8021B	52520
890-4607-88	FS88	Total/NA	Solid	8021B	52520
890-4607-89	FS89	Total/NA	Solid	8021B	52520
890-4607-90	FS90	Total/NA	Solid	8021B	52520
890-4607-91	FS91	Total/NA	Solid	8021B	52520
890-4607-92	FS92	Total/NA	Solid	8021B	52520
MB 880-52520/5-A	Method Blank	Total/NA	Solid	8021B	52520
LCS 880-52520/1-A	Lab Control Sample	Total/NA	Solid	8021B	52520
LCSD 880-52520/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52520
890-4607-81 MS	FS81	Total/NA	Solid	8021B	52520
890-4607-81 MSD	FS81	Total/NA	Solid	8021B	52520

Analysis Batch: 52693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Total/NA	Solid	8021B	52517
890-4607-22	FS22	Total/NA	Solid	8021B	52517
890-4607-23	FS23	Total/NA	Solid	8021B	52517
890-4607-24	FS24	Total/NA	Solid	8021B	52517
890-4607-25	FS25	Total/NA	Solid	8021B	52517
890-4607-26	FS26	Total/NA	Solid	8021B	52517
890-4607-27	FS27	Total/NA	Solid	8021B	52517
890-4607-28	FS28	Total/NA	Solid	8021B	52517
890-4607-29	FS29	Total/NA	Solid	8021B	52517
890-4607-30	FS30	Total/NA	Solid	8021B	52517
890-4607-31	FS31	Total/NA	Solid	8021B	52517

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Analysis Batch: 52693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-32	FS32	Total/NA	Solid	8021B	52517
890-4607-33	FS33	Total/NA	Solid	8021B	52517
890-4607-34	FS34	Total/NA	Solid	8021B	52517
890-4607-35	FS35	Total/NA	Solid	8021B	52517
890-4607-36	FS36	Total/NA	Solid	8021B	52517
890-4607-37	FS37	Total/NA	Solid	8021B	52517
890-4607-38	FS38	Total/NA	Solid	8021B	52517
890-4607-39	FS39	Total/NA	Solid	8021B	52517
890-4607-40	FS40	Total/NA	Solid	8021B	52517
890-4607-41	FS41	Total/NA	Solid	8021B	52518
890-4607-42	FS42	Total/NA	Solid	8021B	52518
890-4607-43	FS43	Total/NA	Solid	8021B	52518
890-4607-44	FS44	Total/NA	Solid	8021B	52518
890-4607-45	FS45	Total/NA	Solid	8021B	52518
890-4607-46	FS46	Total/NA	Solid	8021B	52518
890-4607-47	FS47	Total/NA	Solid	8021B	52518
890-4607-48	FS48	Total/NA	Solid	8021B	52518
890-4607-49	FS49	Total/NA	Solid	8021B	52518
890-4607-50	FS50	Total/NA	Solid	8021B	52518
890-4607-51	FS51	Total/NA	Solid	8021B	52518
890-4607-52	FS52	Total/NA	Solid	8021B	52518
890-4607-53	FS53	Total/NA	Solid	8021B	52518
890-4607-54	FS54	Total/NA	Solid	8021B	52518
890-4607-55	FS55	Total/NA	Solid	8021B	52518
890-4607-56	FS56	Total/NA	Solid	8021B	52518
890-4607-57	FS57	Total/NA	Solid	8021B	52518
890-4607-58	FS58	Total/NA	Solid	8021B	52518
890-4607-59	FS59	Total/NA	Solid	8021B	52518
890-4607-60	FS60	Total/NA	Solid	8021B	52518
890-4607-61	FS61	Total/NA	Solid	8021B	52519
890-4607-62	FS62	Total/NA	Solid	8021B	52519
890-4607-63	FS63	Total/NA	Solid	8021B	52519
890-4607-64	FS64	Total/NA	Solid	8021B	52519
890-4607-65	FS65	Total/NA	Solid	8021B	52519
890-4607-66	FS66	Total/NA	Solid	8021B	52519
890-4607-67	FS67	Total/NA	Solid	8021B	52519
890-4607-68	FS68	Total/NA	Solid	8021B	52519
890-4607-69	FS69	Total/NA	Solid	8021B	52519
890-4607-70	FS70	Total/NA	Solid	8021B	52519
890-4607-71	FS71	Total/NA	Solid	8021B	52519
890-4607-72	FS72	Total/NA	Solid	8021B	52519
890-4607-73	FS73	Total/NA	Solid	8021B	52519
890-4607-74	FS74	Total/NA	Solid	8021B	52519
890-4607-75	FS75	Total/NA	Solid	8021B	52519
890-4607-76	FS76	Total/NA	Solid	8021B	52519
890-4607-77	FS77	Total/NA	Solid	8021B	52519
890-4607-78	FS78	Total/NA	Solid	8021B	52519
890-4607-79	FS79	Total/NA	Solid	8021B	52519
890-4607-80	FS80	Total/NA	Solid	8021B	52519
MB 880-52517/5-A	Method Blank	Total/NA	Solid	8021B	52517
MB 880-52518/5-A	Method Blank	Total/NA	Solid	8021B	52518

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC VOA (Continued)

Analysis Batch: 52693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52519/5-A	Method Blank	Total/NA	Solid	8021B	52519
LCS 880-52517/1-A	Lab Control Sample	Total/NA	Solid	8021B	52517
LCS 880-52518/1-A	Lab Control Sample	Total/NA	Solid	8021B	52518
LCS 880-52519/1-A	Lab Control Sample	Total/NA	Solid	8021B	52519
LCSD 880-52517/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52517
LCSD 880-52518/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52518
LCSD 880-52519/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52519
890-4607-21 MS	FS21	Total/NA	Solid	8021B	52517
890-4607-21 MSD	FS21	Total/NA	Solid	8021B	52517
890-4607-41 MS	FS41	Total/NA	Solid	8021B	52518
890-4607-41 MSD	FS41	Total/NA	Solid	8021B	52518
890-4607-61 MS	FS61	Total/NA	Solid	8021B	52519
890-4607-61 MSD	FS61	Total/NA	Solid	8021B	52519

GC Semi VOA

Analysis Batch: 52454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	8015B NM	52522
890-4607-2	FS02	Total/NA	Solid	8015B NM	52522
890-4607-3	FS03	Total/NA	Solid	8015B NM	52522
890-4607-4	FS04	Total/NA	Solid	8015B NM	52522
890-4607-5	FS05	Total/NA	Solid	8015B NM	52522
890-4607-6	FS06	Total/NA	Solid	8015B NM	52522
890-4607-7	FS07	Total/NA	Solid	8015B NM	52522
890-4607-8	FS08	Total/NA	Solid	8015B NM	52522
890-4607-9	FS09	Total/NA	Solid	8015B NM	52522
890-4607-10	FS10	Total/NA	Solid	8015B NM	52522
890-4607-11	FS11	Total/NA	Solid	8015B NM	52522
890-4607-12	FS12	Total/NA	Solid	8015B NM	52522
890-4607-13	FS13	Total/NA	Solid	8015B NM	52522
890-4607-14	FS14	Total/NA	Solid	8015B NM	52522
890-4607-15	FS15	Total/NA	Solid	8015B NM	52522
890-4607-16	FS16	Total/NA	Solid	8015B NM	52522
890-4607-17	FS17	Total/NA	Solid	8015B NM	52522
890-4607-18	FS18	Total/NA	Solid	8015B NM	52522
890-4607-19	FS19	Total/NA	Solid	8015B NM	52522
890-4607-20	FS20	Total/NA	Solid	8015B NM	52522
MB 880-52522/1-A	Method Blank	Total/NA	Solid	8015B NM	52522
LCS 880-52522/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52522
LCSD 880-52522/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52522
890-4607-1 MS	FS01	Total/NA	Solid	8015B NM	52522
890-4607-1 MSD	FS01	Total/NA	Solid	8015B NM	52522

Prep Batch: 52522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	8015NM Prep	
890-4607-2	FS02	Total/NA	Solid	8015NM Prep	
890-4607-3	FS03	Total/NA	Solid	8015NM Prep	
890-4607-4	FS04	Total/NA	Solid	8015NM Prep	
890-4607-5	FS05	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Prep Batch: 52522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-6	FS06	Total/NA	Solid	8015NM Prep	
890-4607-7	FS07	Total/NA	Solid	8015NM Prep	
890-4607-8	FS08	Total/NA	Solid	8015NM Prep	
890-4607-9	FS09	Total/NA	Solid	8015NM Prep	
890-4607-10	FS10	Total/NA	Solid	8015NM Prep	
890-4607-11	FS11	Total/NA	Solid	8015NM Prep	
890-4607-12	FS12	Total/NA	Solid	8015NM Prep	
890-4607-13	FS13	Total/NA	Solid	8015NM Prep	
890-4607-14	FS14	Total/NA	Solid	8015NM Prep	
890-4607-15	FS15	Total/NA	Solid	8015NM Prep	
890-4607-16	FS16	Total/NA	Solid	8015NM Prep	
890-4607-17	FS17	Total/NA	Solid	8015NM Prep	
890-4607-18	FS18	Total/NA	Solid	8015NM Prep	
890-4607-19	FS19	Total/NA	Solid	8015NM Prep	
890-4607-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-52522/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52522/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52522/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4607-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4607-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 52568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-92	FS92	Total/NA	Solid	8015NM Prep	
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27935-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-27935-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-92	FS92	Total/NA	Solid	8015B NM	52568
MB 880-52568/1-A	Method Blank	Total/NA	Solid	8015B NM	52568
LCS 880-52568/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52568
LCSD 880-52568/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52568
880-27935-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	52568
880-27935-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52568

Analysis Batch: 52629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Total/NA	Solid	8015 NM	
890-4607-2	FS02	Total/NA	Solid	8015 NM	
890-4607-3	FS03	Total/NA	Solid	8015 NM	
890-4607-4	FS04	Total/NA	Solid	8015 NM	
890-4607-5	FS05	Total/NA	Solid	8015 NM	
890-4607-6	FS06	Total/NA	Solid	8015 NM	
890-4607-7	FS07	Total/NA	Solid	8015 NM	
890-4607-8	FS08	Total/NA	Solid	8015 NM	
890-4607-9	FS09	Total/NA	Solid	8015 NM	
890-4607-10	FS10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 52629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-11	FS11	Total/NA	Solid	8015 NM	
890-4607-12	FS12	Total/NA	Solid	8015 NM	
890-4607-13	FS13	Total/NA	Solid	8015 NM	
890-4607-14	FS14	Total/NA	Solid	8015 NM	
890-4607-15	FS15	Total/NA	Solid	8015 NM	
890-4607-16	FS16	Total/NA	Solid	8015 NM	
890-4607-17	FS17	Total/NA	Solid	8015 NM	
890-4607-18	FS18	Total/NA	Solid	8015 NM	
890-4607-19	FS19	Total/NA	Solid	8015 NM	
890-4607-20	FS20	Total/NA	Solid	8015 NM	
890-4607-21	FS21	Total/NA	Solid	8015 NM	
890-4607-22	FS22	Total/NA	Solid	8015 NM	
890-4607-23	FS23	Total/NA	Solid	8015 NM	
890-4607-24	FS24	Total/NA	Solid	8015 NM	
890-4607-25	FS25	Total/NA	Solid	8015 NM	
890-4607-26	FS26	Total/NA	Solid	8015 NM	
890-4607-27	FS27	Total/NA	Solid	8015 NM	
890-4607-28	FS28	Total/NA	Solid	8015 NM	
890-4607-29	FS29	Total/NA	Solid	8015 NM	
890-4607-30	FS30	Total/NA	Solid	8015 NM	
890-4607-31	FS31	Total/NA	Solid	8015 NM	
890-4607-32	FS32	Total/NA	Solid	8015 NM	
890-4607-33	FS33	Total/NA	Solid	8015 NM	
890-4607-34	FS34	Total/NA	Solid	8015 NM	
890-4607-35	FS35	Total/NA	Solid	8015 NM	
890-4607-36	FS36	Total/NA	Solid	8015 NM	
890-4607-37	FS37	Total/NA	Solid	8015 NM	
890-4607-38	FS38	Total/NA	Solid	8015 NM	
890-4607-39	FS39	Total/NA	Solid	8015 NM	
890-4607-40	FS40	Total/NA	Solid	8015 NM	
890-4607-41	FS41	Total/NA	Solid	8015 NM	
890-4607-42	FS42	Total/NA	Solid	8015 NM	
890-4607-43	FS43	Total/NA	Solid	8015 NM	
890-4607-44	FS44	Total/NA	Solid	8015 NM	
890-4607-45	FS45	Total/NA	Solid	8015 NM	
890-4607-46	FS46	Total/NA	Solid	8015 NM	
890-4607-47	FS47	Total/NA	Solid	8015 NM	
890-4607-48	FS48	Total/NA	Solid	8015 NM	
890-4607-49	FS49	Total/NA	Solid	8015 NM	
890-4607-50	FS50	Total/NA	Solid	8015 NM	
890-4607-51	FS51	Total/NA	Solid	8015 NM	
890-4607-52	FS52	Total/NA	Solid	8015 NM	
890-4607-53	FS53	Total/NA	Solid	8015 NM	
890-4607-54	FS54	Total/NA	Solid	8015 NM	
890-4607-55	FS55	Total/NA	Solid	8015 NM	
890-4607-56	FS56	Total/NA	Solid	8015 NM	
890-4607-57	FS57	Total/NA	Solid	8015 NM	
890-4607-58	FS58	Total/NA	Solid	8015 NM	
890-4607-59	FS59	Total/NA	Solid	8015 NM	
890-4607-60	FS60	Total/NA	Solid	8015 NM	
890-4607-61	FS61	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 52629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-62	FS62	Total/NA	Solid	8015 NM	
890-4607-63	FS63	Total/NA	Solid	8015 NM	
890-4607-64	FS64	Total/NA	Solid	8015 NM	
890-4607-65	FS65	Total/NA	Solid	8015 NM	
890-4607-66	FS66	Total/NA	Solid	8015 NM	
890-4607-67	FS67	Total/NA	Solid	8015 NM	
890-4607-68	FS68	Total/NA	Solid	8015 NM	
890-4607-69	FS69	Total/NA	Solid	8015 NM	
890-4607-70	FS70	Total/NA	Solid	8015 NM	
890-4607-71	FS71	Total/NA	Solid	8015 NM	
890-4607-72	FS72	Total/NA	Solid	8015 NM	
890-4607-73	FS73	Total/NA	Solid	8015 NM	
890-4607-74	FS74	Total/NA	Solid	8015 NM	
890-4607-75	FS75	Total/NA	Solid	8015 NM	
890-4607-76	FS76	Total/NA	Solid	8015 NM	
890-4607-77	FS77	Total/NA	Solid	8015 NM	
890-4607-78	FS78	Total/NA	Solid	8015 NM	
890-4607-79	FS79	Total/NA	Solid	8015 NM	
890-4607-80	FS80	Total/NA	Solid	8015 NM	
890-4607-81	FS81	Total/NA	Solid	8015 NM	
890-4607-82	FS82	Total/NA	Solid	8015 NM	
890-4607-83	FS83	Total/NA	Solid	8015 NM	
890-4607-84	FS84	Total/NA	Solid	8015 NM	
890-4607-85	FS85	Total/NA	Solid	8015 NM	
890-4607-86	FS86	Total/NA	Solid	8015 NM	
890-4607-87	FS87	Total/NA	Solid	8015 NM	
890-4607-88	FS88	Total/NA	Solid	8015 NM	
890-4607-89	FS89	Total/NA	Solid	8015 NM	
890-4607-90	FS90	Total/NA	Solid	8015 NM	
890-4607-91	FS91	Total/NA	Solid	8015 NM	
890-4607-92	FS92	Total/NA	Solid	8015 NM	

Prep Batch: 52640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Total/NA	Solid	8015NM Prep	
890-4607-22	FS22	Total/NA	Solid	8015NM Prep	
890-4607-23	FS23	Total/NA	Solid	8015NM Prep	
890-4607-24	FS24	Total/NA	Solid	8015NM Prep	
890-4607-25	FS25	Total/NA	Solid	8015NM Prep	
890-4607-26	FS26	Total/NA	Solid	8015NM Prep	
890-4607-27	FS27	Total/NA	Solid	8015NM Prep	
890-4607-28	FS28	Total/NA	Solid	8015NM Prep	
890-4607-29	FS29	Total/NA	Solid	8015NM Prep	
890-4607-30	FS30	Total/NA	Solid	8015NM Prep	
890-4607-31	FS31	Total/NA	Solid	8015NM Prep	
890-4607-32	FS32	Total/NA	Solid	8015NM Prep	
890-4607-33	FS33	Total/NA	Solid	8015NM Prep	
890-4607-34	FS34	Total/NA	Solid	8015NM Prep	
890-4607-35	FS35	Total/NA	Solid	8015NM Prep	
890-4607-36	FS36	Total/NA	Solid	8015NM Prep	
890-4607-37	FS37	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Prep Batch: 52640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-38	FS38	Total/NA	Solid	8015NM Prep	
890-4607-39	FS39	Total/NA	Solid	8015NM Prep	
890-4607-40	FS40	Total/NA	Solid	8015NM Prep	
MB 880-52640/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52640/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4607-21 MS	FS21	Total/NA	Solid	8015NM Prep	
890-4607-21 MSD	FS21	Total/NA	Solid	8015NM Prep	

Prep Batch: 52678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-41	FS41	Total/NA	Solid	8015NM Prep	
890-4607-42	FS42	Total/NA	Solid	8015NM Prep	
890-4607-43	FS43	Total/NA	Solid	8015NM Prep	
890-4607-44	FS44	Total/NA	Solid	8015NM Prep	
890-4607-45	FS45	Total/NA	Solid	8015NM Prep	
890-4607-46	FS46	Total/NA	Solid	8015NM Prep	
890-4607-47	FS47	Total/NA	Solid	8015NM Prep	
890-4607-48	FS48	Total/NA	Solid	8015NM Prep	
890-4607-49	FS49	Total/NA	Solid	8015NM Prep	
890-4607-50	FS50	Total/NA	Solid	8015NM Prep	
890-4607-51	FS51	Total/NA	Solid	8015NM Prep	
890-4607-52	FS52	Total/NA	Solid	8015NM Prep	
890-4607-53	FS53	Total/NA	Solid	8015NM Prep	
890-4607-54	FS54	Total/NA	Solid	8015NM Prep	
890-4607-55	FS55	Total/NA	Solid	8015NM Prep	
890-4607-56	FS56	Total/NA	Solid	8015NM Prep	
890-4607-57	FS57	Total/NA	Solid	8015NM Prep	
890-4607-58	FS58	Total/NA	Solid	8015NM Prep	
890-4607-59	FS59	Total/NA	Solid	8015NM Prep	
890-4607-60	FS60	Total/NA	Solid	8015NM Prep	
MB 880-52678/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52678/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4607-41 MS	FS41	Total/NA	Solid	8015NM Prep	
890-4607-41 MSD	FS41	Total/NA	Solid	8015NM Prep	

Prep Batch: 52679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Total/NA	Solid	8015NM Prep	
890-4607-82	FS82	Total/NA	Solid	8015NM Prep	
890-4607-83	FS83	Total/NA	Solid	8015NM Prep	
890-4607-84	FS84	Total/NA	Solid	8015NM Prep	
890-4607-85	FS85	Total/NA	Solid	8015NM Prep	
890-4607-86	FS86	Total/NA	Solid	8015NM Prep	
890-4607-87	FS87	Total/NA	Solid	8015NM Prep	
890-4607-88	FS88	Total/NA	Solid	8015NM Prep	
890-4607-89	FS89	Total/NA	Solid	8015NM Prep	
890-4607-90	FS90	Total/NA	Solid	8015NM Prep	
890-4607-91	FS91	Total/NA	Solid	8015NM Prep	
MB 880-52679/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Prep Batch: 52679 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-52679/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52679/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4607-81 MS	FS81	Total/NA	Solid	8015NM Prep	
890-4607-81 MSD	FS81	Total/NA	Solid	8015NM Prep	

Prep Batch: 52712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-61	FS61	Total/NA	Solid	8015NM Prep	
890-4607-62	FS62	Total/NA	Solid	8015NM Prep	
890-4607-63	FS63	Total/NA	Solid	8015NM Prep	
890-4607-64	FS64	Total/NA	Solid	8015NM Prep	
890-4607-65	FS65	Total/NA	Solid	8015NM Prep	
890-4607-66	FS66	Total/NA	Solid	8015NM Prep	
890-4607-67	FS67	Total/NA	Solid	8015NM Prep	
890-4607-68	FS68	Total/NA	Solid	8015NM Prep	
890-4607-69	FS69	Total/NA	Solid	8015NM Prep	
890-4607-70	FS70	Total/NA	Solid	8015NM Prep	
890-4607-71	FS71	Total/NA	Solid	8015NM Prep	
890-4607-72	FS72	Total/NA	Solid	8015NM Prep	
890-4607-73	FS73	Total/NA	Solid	8015NM Prep	
890-4607-74	FS74	Total/NA	Solid	8015NM Prep	
890-4607-75	FS75	Total/NA	Solid	8015NM Prep	
890-4607-76	FS76	Total/NA	Solid	8015NM Prep	
890-4607-77	FS77	Total/NA	Solid	8015NM Prep	
890-4607-78	FS78	Total/NA	Solid	8015NM Prep	
890-4607-79	FS79	Total/NA	Solid	8015NM Prep	
890-4607-80	FS80	Total/NA	Solid	8015NM Prep	
MB 880-52712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4607-61 MS	FS61	Total/NA	Solid	8015NM Prep	
890-4607-61 MSD	FS61	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-61	FS61	Total/NA	Solid	8015B NM	52712
890-4607-62	FS62	Total/NA	Solid	8015B NM	52712
890-4607-63	FS63	Total/NA	Solid	8015B NM	52712
890-4607-64	FS64	Total/NA	Solid	8015B NM	52712
890-4607-65	FS65	Total/NA	Solid	8015B NM	52712
890-4607-66	FS66	Total/NA	Solid	8015B NM	52712
890-4607-67	FS67	Total/NA	Solid	8015B NM	52712
890-4607-68	FS68	Total/NA	Solid	8015B NM	52712
890-4607-69	FS69	Total/NA	Solid	8015B NM	52712
890-4607-70	FS70	Total/NA	Solid	8015B NM	52712
890-4607-71	FS71	Total/NA	Solid	8015B NM	52712
890-4607-72	FS72	Total/NA	Solid	8015B NM	52712
890-4607-73	FS73	Total/NA	Solid	8015B NM	52712
890-4607-74	FS74	Total/NA	Solid	8015B NM	52712
890-4607-75	FS75	Total/NA	Solid	8015B NM	52712
890-4607-76	FS76	Total/NA	Solid	8015B NM	52712

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 52729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-77	FS77	Total/NA	Solid	8015B NM	52712
890-4607-78	FS78	Total/NA	Solid	8015B NM	52712
890-4607-79	FS79	Total/NA	Solid	8015B NM	52712
890-4607-80	FS80	Total/NA	Solid	8015B NM	52712
MB 880-52712/1-A	Method Blank	Total/NA	Solid	8015B NM	52712
LCS 880-52712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52712
LCSD 880-52712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52712
890-4607-61 MS	FS61	Total/NA	Solid	8015B NM	52712
890-4607-61 MSD	FS61	Total/NA	Solid	8015B NM	52712

Analysis Batch: 52759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-41	FS41	Total/NA	Solid	8015B NM	52678
890-4607-42	FS42	Total/NA	Solid	8015B NM	52678
890-4607-43	FS43	Total/NA	Solid	8015B NM	52678
890-4607-44	FS44	Total/NA	Solid	8015B NM	52678
890-4607-45	FS45	Total/NA	Solid	8015B NM	52678
890-4607-46	FS46	Total/NA	Solid	8015B NM	52678
890-4607-47	FS47	Total/NA	Solid	8015B NM	52678
890-4607-48	FS48	Total/NA	Solid	8015B NM	52678
890-4607-49	FS49	Total/NA	Solid	8015B NM	52678
890-4607-50	FS50	Total/NA	Solid	8015B NM	52678
890-4607-51	FS51	Total/NA	Solid	8015B NM	52678
890-4607-52	FS52	Total/NA	Solid	8015B NM	52678
890-4607-53	FS53	Total/NA	Solid	8015B NM	52678
890-4607-54	FS54	Total/NA	Solid	8015B NM	52678
890-4607-55	FS55	Total/NA	Solid	8015B NM	52678
890-4607-56	FS56	Total/NA	Solid	8015B NM	52678
890-4607-57	FS57	Total/NA	Solid	8015B NM	52678
890-4607-58	FS58	Total/NA	Solid	8015B NM	52678
890-4607-59	FS59	Total/NA	Solid	8015B NM	52678
890-4607-60	FS60	Total/NA	Solid	8015B NM	52678
MB 880-52678/1-A	Method Blank	Total/NA	Solid	8015B NM	52678
LCS 880-52678/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52678
LCSD 880-52678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52678
890-4607-41 MS	FS41	Total/NA	Solid	8015B NM	52678
890-4607-41 MSD	FS41	Total/NA	Solid	8015B NM	52678

Analysis Batch: 52761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Total/NA	Solid	8015B NM	52679
890-4607-82	FS82	Total/NA	Solid	8015B NM	52679
890-4607-83	FS83	Total/NA	Solid	8015B NM	52679
890-4607-84	FS84	Total/NA	Solid	8015B NM	52679
890-4607-85	FS85	Total/NA	Solid	8015B NM	52679
890-4607-86	FS86	Total/NA	Solid	8015B NM	52679
890-4607-87	FS87	Total/NA	Solid	8015B NM	52679
890-4607-88	FS88	Total/NA	Solid	8015B NM	52679
890-4607-89	FS89	Total/NA	Solid	8015B NM	52679
890-4607-90	FS90	Total/NA	Solid	8015B NM	52679
890-4607-91	FS91	Total/NA	Solid	8015B NM	52679

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

GC Semi VOA (Continued)

Analysis Batch: 52761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-52679/1-A	Method Blank	Total/NA	Solid	8015B NM	52679
LCS 880-52679/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52679
LCSD 880-52679/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52679
890-4607-81 MS	FS81	Total/NA	Solid	8015B NM	52679
890-4607-81 MSD	FS81	Total/NA	Solid	8015B NM	52679

Analysis Batch: 52763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Total/NA	Solid	8015B NM	52640
890-4607-22	FS22	Total/NA	Solid	8015B NM	52640
890-4607-23	FS23	Total/NA	Solid	8015B NM	52640
890-4607-24	FS24	Total/NA	Solid	8015B NM	52640
890-4607-25	FS25	Total/NA	Solid	8015B NM	52640
890-4607-26	FS26	Total/NA	Solid	8015B NM	52640
890-4607-27	FS27	Total/NA	Solid	8015B NM	52640
890-4607-28	FS28	Total/NA	Solid	8015B NM	52640
890-4607-29	FS29	Total/NA	Solid	8015B NM	52640
890-4607-30	FS30	Total/NA	Solid	8015B NM	52640
890-4607-31	FS31	Total/NA	Solid	8015B NM	52640
890-4607-32	FS32	Total/NA	Solid	8015B NM	52640
890-4607-33	FS33	Total/NA	Solid	8015B NM	52640
890-4607-34	FS34	Total/NA	Solid	8015B NM	52640
890-4607-35	FS35	Total/NA	Solid	8015B NM	52640
890-4607-36	FS36	Total/NA	Solid	8015B NM	52640
890-4607-37	FS37	Total/NA	Solid	8015B NM	52640
890-4607-38	FS38	Total/NA	Solid	8015B NM	52640
890-4607-39	FS39	Total/NA	Solid	8015B NM	52640
890-4607-40	FS40	Total/NA	Solid	8015B NM	52640
MB 880-52640/1-A	Method Blank	Total/NA	Solid	8015B NM	52640
LCS 880-52640/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52640
LCSD 880-52640/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52640
890-4607-21 MS	FS21	Total/NA	Solid	8015B NM	52640
890-4607-21 MSD	FS21	Total/NA	Solid	8015B NM	52640

HPLC/IC

Leach Batch: 52539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Soluble	Solid	DI Leach	
890-4607-2	FS02	Soluble	Solid	DI Leach	
890-4607-3	FS03	Soluble	Solid	DI Leach	
890-4607-4	FS04	Soluble	Solid	DI Leach	
890-4607-5	FS05	Soluble	Solid	DI Leach	
890-4607-6	FS06	Soluble	Solid	DI Leach	
890-4607-7	FS07	Soluble	Solid	DI Leach	
890-4607-8	FS08	Soluble	Solid	DI Leach	
890-4607-9	FS09	Soluble	Solid	DI Leach	
890-4607-10	FS10	Soluble	Solid	DI Leach	
890-4607-11	FS11	Soluble	Solid	DI Leach	
890-4607-12	FS12	Soluble	Solid	DI Leach	
890-4607-13	FS13	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC (Continued)

Leach Batch: 52539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-14	FS14	Soluble	Solid	DI Leach	
890-4607-15	FS15	Soluble	Solid	DI Leach	
890-4607-16	FS16	Soluble	Solid	DI Leach	
890-4607-17	FS17	Soluble	Solid	DI Leach	
890-4607-18	FS18	Soluble	Solid	DI Leach	
890-4607-19	FS19	Soluble	Solid	DI Leach	
890-4607-20	FS20	Soluble	Solid	DI Leach	
MB 880-52539/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52539/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52539/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4607-1 MS	FS01	Soluble	Solid	DI Leach	
890-4607-1 MSD	FS01	Soluble	Solid	DI Leach	
890-4607-11 MS	FS11	Soluble	Solid	DI Leach	
890-4607-11 MSD	FS11	Soluble	Solid	DI Leach	

Leach Batch: 52540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Soluble	Solid	DI Leach	
890-4607-22	FS22	Soluble	Solid	DI Leach	
890-4607-23	FS23	Soluble	Solid	DI Leach	
890-4607-24	FS24	Soluble	Solid	DI Leach	
890-4607-25	FS25	Soluble	Solid	DI Leach	
890-4607-26	FS26	Soluble	Solid	DI Leach	
890-4607-27	FS27	Soluble	Solid	DI Leach	
890-4607-28	FS28	Soluble	Solid	DI Leach	
890-4607-29	FS29	Soluble	Solid	DI Leach	
890-4607-30	FS30	Soluble	Solid	DI Leach	
890-4607-31	FS31	Soluble	Solid	DI Leach	
890-4607-32	FS32	Soluble	Solid	DI Leach	
890-4607-33	FS33	Soluble	Solid	DI Leach	
890-4607-34	FS34	Soluble	Solid	DI Leach	
890-4607-35	FS35	Soluble	Solid	DI Leach	
890-4607-36	FS36	Soluble	Solid	DI Leach	
890-4607-37	FS37	Soluble	Solid	DI Leach	
890-4607-38	FS38	Soluble	Solid	DI Leach	
890-4607-39	FS39	Soluble	Solid	DI Leach	
890-4607-40	FS40	Soluble	Solid	DI Leach	
MB 880-52540/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52540/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52540/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4607-21 MS	FS21	Soluble	Solid	DI Leach	
890-4607-21 MSD	FS21	Soluble	Solid	DI Leach	
890-4607-31 MS	FS31	Soluble	Solid	DI Leach	
890-4607-31 MSD	FS31	Soluble	Solid	DI Leach	

Leach Batch: 52541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-41	FS41	Soluble	Solid	DI Leach	
890-4607-42	FS42	Soluble	Solid	DI Leach	
890-4607-43	FS43	Soluble	Solid	DI Leach	
890-4607-44	FS44	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC (Continued)

Leach Batch: 52541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-45	FS45	Soluble	Solid	DI Leach	
890-4607-46	FS46	Soluble	Solid	DI Leach	
890-4607-47	FS47	Soluble	Solid	DI Leach	
890-4607-48	FS48	Soluble	Solid	DI Leach	
890-4607-49	FS49	Soluble	Solid	DI Leach	
890-4607-50	FS50	Soluble	Solid	DI Leach	
890-4607-51	FS51	Soluble	Solid	DI Leach	
890-4607-52	FS52	Soluble	Solid	DI Leach	
890-4607-53	FS53	Soluble	Solid	DI Leach	
890-4607-54	FS54	Soluble	Solid	DI Leach	
890-4607-55	FS55	Soluble	Solid	DI Leach	
890-4607-56	FS56	Soluble	Solid	DI Leach	
890-4607-57	FS57	Soluble	Solid	DI Leach	
890-4607-58	FS58	Soluble	Solid	DI Leach	
890-4607-59	FS59	Soluble	Solid	DI Leach	
890-4607-60	FS60	Soluble	Solid	DI Leach	
MB 880-52541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4607-41 MS	FS41	Soluble	Solid	DI Leach	
890-4607-41 MSD	FS41	Soluble	Solid	DI Leach	
890-4607-51 MS	FS51	Soluble	Solid	DI Leach	
890-4607-51 MSD	FS51	Soluble	Solid	DI Leach	

Leach Batch: 52542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-61	FS61	Soluble	Solid	DI Leach	
890-4607-62	FS62	Soluble	Solid	DI Leach	
890-4607-63	FS63	Soluble	Solid	DI Leach	
890-4607-64	FS64	Soluble	Solid	DI Leach	
890-4607-65	FS65	Soluble	Solid	DI Leach	
890-4607-66	FS66	Soluble	Solid	DI Leach	
890-4607-67	FS67	Soluble	Solid	DI Leach	
890-4607-68	FS68	Soluble	Solid	DI Leach	
890-4607-69	FS69	Soluble	Solid	DI Leach	
890-4607-70	FS70	Soluble	Solid	DI Leach	
890-4607-71	FS71	Soluble	Solid	DI Leach	
890-4607-72	FS72	Soluble	Solid	DI Leach	
890-4607-73	FS73	Soluble	Solid	DI Leach	
890-4607-74	FS74	Soluble	Solid	DI Leach	
890-4607-75	FS75	Soluble	Solid	DI Leach	
890-4607-76	FS76	Soluble	Solid	DI Leach	
890-4607-77	FS77	Soluble	Solid	DI Leach	
890-4607-78	FS78	Soluble	Solid	DI Leach	
890-4607-79	FS79	Soluble	Solid	DI Leach	
890-4607-80	FS80	Soluble	Solid	DI Leach	
MB 880-52542/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52542/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52542/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4607-61 MS	FS61	Soluble	Solid	DI Leach	
890-4607-61 MSD	FS61	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC (Continued)

Leach Batch: 52542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-71 MS	FS71	Soluble	Solid	DI Leach	
890-4607-71 MSD	FS71	Soluble	Solid	DI Leach	

Leach Batch: 52543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Soluble	Solid	DI Leach	
890-4607-82	FS82	Soluble	Solid	DI Leach	
890-4607-83	FS83	Soluble	Solid	DI Leach	
890-4607-84	FS84	Soluble	Solid	DI Leach	
890-4607-85	FS85	Soluble	Solid	DI Leach	
890-4607-86	FS86	Soluble	Solid	DI Leach	
890-4607-87	FS87	Soluble	Solid	DI Leach	
890-4607-88	FS88	Soluble	Solid	DI Leach	
890-4607-89	FS89	Soluble	Solid	DI Leach	
890-4607-90	FS90	Soluble	Solid	DI Leach	
890-4607-91	FS91	Soluble	Solid	DI Leach	
890-4607-92	FS92	Soluble	Solid	DI Leach	
MB 880-52543/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52543/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52543/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4607-89 MS	FS89	Soluble	Solid	DI Leach	
890-4607-89 MSD	FS89	Soluble	Solid	DI Leach	

Analysis Batch: 52772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-61	FS61	Soluble	Solid	300.0	52542
890-4607-62	FS62	Soluble	Solid	300.0	52542
890-4607-63	FS63	Soluble	Solid	300.0	52542
890-4607-64	FS64	Soluble	Solid	300.0	52542
890-4607-65	FS65	Soluble	Solid	300.0	52542
890-4607-66	FS66	Soluble	Solid	300.0	52542
890-4607-67	FS67	Soluble	Solid	300.0	52542
890-4607-68	FS68	Soluble	Solid	300.0	52542
890-4607-69	FS69	Soluble	Solid	300.0	52542
890-4607-70	FS70	Soluble	Solid	300.0	52542
890-4607-71	FS71	Soluble	Solid	300.0	52542
890-4607-72	FS72	Soluble	Solid	300.0	52542
890-4607-73	FS73	Soluble	Solid	300.0	52542
890-4607-74	FS74	Soluble	Solid	300.0	52542
890-4607-75	FS75	Soluble	Solid	300.0	52542
890-4607-76	FS76	Soluble	Solid	300.0	52542
890-4607-77	FS77	Soluble	Solid	300.0	52542
890-4607-78	FS78	Soluble	Solid	300.0	52542
890-4607-79	FS79	Soluble	Solid	300.0	52542
890-4607-80	FS80	Soluble	Solid	300.0	52542
MB 880-52542/1-A	Method Blank	Soluble	Solid	300.0	52542
LCS 880-52542/2-A	Lab Control Sample	Soluble	Solid	300.0	52542
LCSD 880-52542/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52542
890-4607-61 MS	FS61	Soluble	Solid	300.0	52542
890-4607-61 MSD	FS61	Soluble	Solid	300.0	52542
890-4607-71 MS	FS71	Soluble	Solid	300.0	52542

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC (Continued)

Analysis Batch: 52772 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-71 MSD	FS71	Soluble	Solid	300.0	52542

Analysis Batch: 52773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-81	FS81	Soluble	Solid	300.0	52543
890-4607-82	FS82	Soluble	Solid	300.0	52543
890-4607-83	FS83	Soluble	Solid	300.0	52543
890-4607-84	FS84	Soluble	Solid	300.0	52543
890-4607-85	FS85	Soluble	Solid	300.0	52543
890-4607-86	FS86	Soluble	Solid	300.0	52543
890-4607-87	FS87	Soluble	Solid	300.0	52543
890-4607-88	FS88	Soluble	Solid	300.0	52543
890-4607-89	FS89	Soluble	Solid	300.0	52543
890-4607-90	FS90	Soluble	Solid	300.0	52543
890-4607-91	FS91	Soluble	Solid	300.0	52543
890-4607-92	FS92	Soluble	Solid	300.0	52543
MB 880-52543/1-A	Method Blank	Soluble	Solid	300.0	52543
LCS 880-52543/2-A	Lab Control Sample	Soluble	Solid	300.0	52543
LCSD 880-52543/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52543
890-4607-89 MS	FS89	Soluble	Solid	300.0	52543
890-4607-89 MSD	FS89	Soluble	Solid	300.0	52543

Analysis Batch: 52774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-41	FS41	Soluble	Solid	300.0	52541
890-4607-42	FS42	Soluble	Solid	300.0	52541
890-4607-43	FS43	Soluble	Solid	300.0	52541
890-4607-44	FS44	Soluble	Solid	300.0	52541
890-4607-45	FS45	Soluble	Solid	300.0	52541
890-4607-46	FS46	Soluble	Solid	300.0	52541
890-4607-47	FS47	Soluble	Solid	300.0	52541
890-4607-48	FS48	Soluble	Solid	300.0	52541
890-4607-49	FS49	Soluble	Solid	300.0	52541
890-4607-50	FS50	Soluble	Solid	300.0	52541
890-4607-51	FS51	Soluble	Solid	300.0	52541
890-4607-52	FS52	Soluble	Solid	300.0	52541
890-4607-53	FS53	Soluble	Solid	300.0	52541
890-4607-54	FS54	Soluble	Solid	300.0	52541
890-4607-55	FS55	Soluble	Solid	300.0	52541
890-4607-56	FS56	Soluble	Solid	300.0	52541
890-4607-57	FS57	Soluble	Solid	300.0	52541
890-4607-58	FS58	Soluble	Solid	300.0	52541
890-4607-59	FS59	Soluble	Solid	300.0	52541
890-4607-60	FS60	Soluble	Solid	300.0	52541
MB 880-52541/1-A	Method Blank	Soluble	Solid	300.0	52541
LCS 880-52541/2-A	Lab Control Sample	Soluble	Solid	300.0	52541
LCSD 880-52541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52541
890-4607-41 MS	FS41	Soluble	Solid	300.0	52541
890-4607-41 MSD	FS41	Soluble	Solid	300.0	52541
890-4607-51 MS	FS51	Soluble	Solid	300.0	52541
890-4607-51 MSD	FS51	Soluble	Solid	300.0	52541

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC

Analysis Batch: 52775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-1	FS01	Soluble	Solid	300.0	52539
890-4607-2	FS02	Soluble	Solid	300.0	52539
890-4607-3	FS03	Soluble	Solid	300.0	52539
890-4607-4	FS04	Soluble	Solid	300.0	52539
890-4607-5	FS05	Soluble	Solid	300.0	52539
890-4607-6	FS06	Soluble	Solid	300.0	52539
890-4607-7	FS07	Soluble	Solid	300.0	52539
890-4607-8	FS08	Soluble	Solid	300.0	52539
890-4607-9	FS09	Soluble	Solid	300.0	52539
890-4607-10	FS10	Soluble	Solid	300.0	52539
890-4607-11	FS11	Soluble	Solid	300.0	52539
890-4607-12	FS12	Soluble	Solid	300.0	52539
890-4607-13	FS13	Soluble	Solid	300.0	52539
890-4607-14	FS14	Soluble	Solid	300.0	52539
890-4607-15	FS15	Soluble	Solid	300.0	52539
890-4607-16	FS16	Soluble	Solid	300.0	52539
890-4607-17	FS17	Soluble	Solid	300.0	52539
890-4607-18	FS18	Soluble	Solid	300.0	52539
890-4607-19	FS19	Soluble	Solid	300.0	52539
890-4607-20	FS20	Soluble	Solid	300.0	52539
MB 880-52539/1-A	Method Blank	Soluble	Solid	300.0	52539
LCS 880-52539/2-A	Lab Control Sample	Soluble	Solid	300.0	52539
LCSD 880-52539/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52539
890-4607-1 MS	FS01	Soluble	Solid	300.0	52539
890-4607-1 MSD	FS01	Soluble	Solid	300.0	52539
890-4607-11 MS	FS11	Soluble	Solid	300.0	52539
890-4607-11 MSD	FS11	Soluble	Solid	300.0	52539

Analysis Batch: 52778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4607-21	FS21	Soluble	Solid	300.0	52540
890-4607-22	FS22	Soluble	Solid	300.0	52540
890-4607-23	FS23	Soluble	Solid	300.0	52540
890-4607-24	FS24	Soluble	Solid	300.0	52540
890-4607-25	FS25	Soluble	Solid	300.0	52540
890-4607-26	FS26	Soluble	Solid	300.0	52540
890-4607-27	FS27	Soluble	Solid	300.0	52540
890-4607-28	FS28	Soluble	Solid	300.0	52540
890-4607-29	FS29	Soluble	Solid	300.0	52540
890-4607-30	FS30	Soluble	Solid	300.0	52540
890-4607-31	FS31	Soluble	Solid	300.0	52540
890-4607-32	FS32	Soluble	Solid	300.0	52540
890-4607-33	FS33	Soluble	Solid	300.0	52540
890-4607-34	FS34	Soluble	Solid	300.0	52540
890-4607-35	FS35	Soluble	Solid	300.0	52540
890-4607-36	FS36	Soluble	Solid	300.0	52540
890-4607-37	FS37	Soluble	Solid	300.0	52540
890-4607-38	FS38	Soluble	Solid	300.0	52540
890-4607-39	FS39	Soluble	Solid	300.0	52540
890-4607-40	FS40	Soluble	Solid	300.0	52540
MB 880-52540/1-A	Method Blank	Soluble	Solid	300.0	52540

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QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

HPLC/IC (Continued)

Analysis Batch: 52778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-52540/2-A	Lab Control Sample	Soluble	Solid	300.0	52540
LCSD 880-52540/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52540
890-4607-21 MS	FS21	Soluble	Solid	300.0	52540
890-4607-21 MSD	FS21	Soluble	Solid	300.0	52540
890-4607-31 MS	FS31	Soluble	Solid	300.0	52540
890-4607-31 MSD	FS31	Soluble	Solid	300.0	52540

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS01

Lab Sample ID: 890-4607-1

Date Collected: 05/01/23 08:20

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/04/23 20:45	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/03/23 22:11	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 12:56	SMC	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-4607-2

Date Collected: 05/01/23 08:25

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 05:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/03/23 23:16	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:12	SMC	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4607-3

Date Collected: 05/01/23 08:30

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 06:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/03/23 23:37	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:17	SMC	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4607-4

Date Collected: 05/01/23 08:35

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 08:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS04

Lab Sample ID: 890-4607-4

Date Collected: 05/01/23 08:35

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/03/23 23:58	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:23	SMC	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-4607-5

Date Collected: 05/01/23 08:40

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 09:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 00:20	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:28	SMC	EET MID

Client Sample ID: FS06

Lab Sample ID: 890-4607-6

Date Collected: 05/01/23 08:45

Matrix: Solid

Date Received: 05/02/23 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	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 09:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 00:42	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:44	SMC	EET MID

Client Sample ID: FS07

Lab Sample ID: 890-4607-7

Date Collected: 05/01/23 08:50

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 09:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 01:03	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS07

Date Collected: 05/01/23 08:50

Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:50	SMC	EET MID

Client Sample ID: FS08

Date Collected: 05/01/23 08:55

Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 10:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 01:25	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 13:55	SMC	EET MID

Client Sample ID: FS09

Date Collected: 05/01/23 09:00

Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 10:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 01:46	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:00	SMC	EET MID

Client Sample ID: FS10

Date Collected: 05/01/23 09:05

Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	52636	05/04/23 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52566	05/05/23 10:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 02:08	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:06	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS11

Lab Sample ID: 890-4607-11

Date Collected: 05/01/23 09:10

Matrix: Solid

Date Received: 05/02/23 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	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 02:51	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:11	SMC	EET MID

Client Sample ID: FS12

Lab Sample ID: 890-4607-12

Date Collected: 05/01/23 09:15

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 03:13	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:27	SMC	EET MID

Client Sample ID: FS13

Lab Sample ID: 890-4607-13

Date Collected: 05/01/23 09:20

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 03:35	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:33	SMC	EET MID

Client Sample ID: FS14

Lab Sample ID: 890-4607-14

Date Collected: 05/01/23 09:25

Matrix: Solid

Date Received: 05/02/23 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	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 19:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS14

Lab Sample ID: 890-4607-14

Date Collected: 05/01/23 09:25

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 03:56	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:49	SMC	EET MID

Client Sample ID: FS15

Lab Sample ID: 890-4607-15

Date Collected: 05/01/23 09:30

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 04:18	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:54	SMC	EET MID

Client Sample ID: FS16

Lab Sample ID: 890-4607-16

Date Collected: 05/01/23 09:35

Matrix: Solid

Date Received: 05/02/23 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			5.05 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 20:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 04:39	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 14:59	SMC	EET MID

Client Sample ID: FS17

Lab Sample ID: 890-4607-17

Date Collected: 05/01/23 09:40

Matrix: Solid

Date Received: 05/02/23 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			5.05 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 21:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 05:01	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS17

Lab Sample ID: 890-4607-17

Date Collected: 05/01/23 09:40

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 15:05	SMC	EET MID

Client Sample ID: FS18

Lab Sample ID: 890-4607-18

Date Collected: 05/01/23 09:45

Matrix: Solid

Date Received: 05/02/23 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			5.04 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 21:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 05:22	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 15:10	SMC	EET MID

Client Sample ID: FS19

Lab Sample ID: 890-4607-19

Date Collected: 05/01/23 09:50

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 21:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 05:44	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 15:16	SMC	EET MID

Client Sample ID: FS20

Lab Sample ID: 890-4607-20

Date Collected: 05/01/23 09:55

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52516	05/03/23 13:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52564	05/04/23 22:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/05/23 15:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/04/23 14:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52522	05/03/23 14:14	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52454	05/04/23 06:06	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52539	05/03/23 14:45	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52775	05/06/23 15:21	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS21

Lab Sample ID: 890-4607-21

Date Collected: 05/01/23 10:00

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 11:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 13:24	SMC	EET MID

Client Sample ID: FS22

Lab Sample ID: 890-4607-22

Date Collected: 05/01/23 10:05

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 17:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 12:20	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 13:38	SMC	EET MID

Client Sample ID: FS23

Lab Sample ID: 890-4607-23

Date Collected: 05/01/23 10:10

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 17:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 12:42	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 13:43	SMC	EET MID

Client Sample ID: FS24

Lab Sample ID: 890-4607-24

Date Collected: 05/01/23 10:15

Matrix: Solid

Date Received: 05/02/23 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			5.05 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS24

Lab Sample ID: 890-4607-24

Date Collected: 05/01/23 10:15

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 13:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 13:48	SMC	EET MID

Client Sample ID: FS25

Lab Sample ID: 890-4607-25

Date Collected: 05/01/23 10:20

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 13:53	SMC	EET MID

Client Sample ID: FS26

Lab Sample ID: 890-4607-26

Date Collected: 05/01/23 10:25

Matrix: Solid

Date Received: 05/02/23 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			4.96 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 18:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 13:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:07	SMC	EET MID

Client Sample ID: FS27

Lab Sample ID: 890-4607-27

Date Collected: 05/01/23 10:30

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 14:11	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS27

Lab Sample ID: 890-4607-27

Date Collected: 05/01/23 10:30

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:12	SMC	EET MID

Client Sample ID: FS28

Lab Sample ID: 890-4607-28

Date Collected: 05/01/23 10:35

Matrix: Solid

Date Received: 05/02/23 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	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:17	SMC	EET MID

Client Sample ID: FS29

Lab Sample ID: 890-4607-29

Date Collected: 05/01/23 10:40

Matrix: Solid

Date Received: 05/02/23 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			4.95 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 14:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:22	SMC	EET MID

Client Sample ID: FS30

Lab Sample ID: 890-4607-30

Date Collected: 05/01/23 10:45

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:27	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS31
Date Collected: 05/01/23 10:50
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 16:02	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:32	SMC	EET MID

Client Sample ID: FS32
Date Collected: 05/01/23 10:55
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 22:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 16:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:46	SMC	EET MID

Client Sample ID: FS33
Date Collected: 05/01/23 11:00
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 16:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 14:51	SMC	EET MID

Client Sample ID: FS34
Date Collected: 05/01/23 11:05
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/05/23 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS34

Lab Sample ID: 890-4607-34

Date Collected: 05/01/23 11:05

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:05	SMC	EET MID

Client Sample ID: FS35

Lab Sample ID: 890-4607-35

Date Collected: 05/01/23 11:10

Matrix: Solid

Date Received: 05/02/23 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			5.05 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 00:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:10	SMC	EET MID

Client Sample ID: FS36

Lab Sample ID: 890-4607-36

Date Collected: 05/01/23 11:15

Matrix: Solid

Date Received: 05/02/23 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	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:15	SMC	EET MID

Client Sample ID: FS37

Lab Sample ID: 890-4607-37

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 18:07	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS37

Lab Sample ID: 890-4607-37

Date Collected: 05/01/23 11:20

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:20	SMC	EET MID

Client Sample ID: FS38

Lab Sample ID: 890-4607-38

Date Collected: 05/01/23 11:25

Matrix: Solid

Date Received: 05/02/23 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			4.96 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:25	SMC	EET MID

Client Sample ID: FS39

Lab Sample ID: 890-4607-39

Date Collected: 05/01/23 11:30

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 01:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 18:49	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:30	SMC	EET MID

Client Sample ID: FS40

Lab Sample ID: 890-4607-40

Date Collected: 05/01/23 11:35

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52517	05/03/23 13:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 02:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 10:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52640	05/04/23 15:56	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52763	05/06/23 19:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52540	05/03/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52778	05/06/23 15:34	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS41

Lab Sample ID: 890-4607-41

Date Collected: 05/01/23 11:40

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 06:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 11:08	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 00:13	SMC	EET MID

Client Sample ID: FS42

Lab Sample ID: 890-4607-42

Date Collected: 05/01/23 11:45

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 12:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 00:29	SMC	EET MID

Client Sample ID: FS43

Lab Sample ID: 890-4607-43

Date Collected: 05/01/23 11:50

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 07:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 12:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 00:34	SMC	EET MID

Client Sample ID: FS44

Lab Sample ID: 890-4607-44

Date Collected: 05/01/23 11:55

Matrix: Solid

Date Received: 05/02/23 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	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 07:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS44

Lab Sample ID: 890-4607-44

Date Collected: 05/01/23 11:55

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 00:40	SMC	EET MID

Client Sample ID: FS45

Lab Sample ID: 890-4607-45

Date Collected: 05/01/23 12:00

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 08:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 00:45	SMC	EET MID

Client Sample ID: FS46

Lab Sample ID: 890-4607-46

Date Collected: 05/01/23 12:05

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:01	SMC	EET MID

Client Sample ID: FS47

Lab Sample ID: 890-4607-47

Date Collected: 05/01/23 12:10

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 14:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS47

Lab Sample ID: 890-4607-47

Date Collected: 05/01/23 12:10

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:07	SMC	EET MID

Client Sample ID: FS48

Lab Sample ID: 890-4607-48

Date Collected: 05/01/23 12:15

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 09:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 14:30	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:12	SMC	EET MID

Client Sample ID: FS49

Lab Sample ID: 890-4607-49

Date Collected: 05/01/23 12:20

Matrix: Solid

Date Received: 05/02/23 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	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 09:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 14:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:17	SMC	EET MID

Client Sample ID: FS50

Lab Sample ID: 890-4607-50

Date Collected: 05/01/23 12:25

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 10:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 15:15	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:23	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS51

Lab Sample ID: 890-4607-51

Date Collected: 05/01/23 12:30

Matrix: Solid

Date Received: 05/02/23 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	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 11:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 16:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:28	SMC	EET MID

Client Sample ID: FS52

Lab Sample ID: 890-4607-52

Date Collected: 05/01/23 12:35

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 16:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:44	SMC	EET MID

Client Sample ID: FS53

Lab Sample ID: 890-4607-53

Date Collected: 05/01/23 12:40

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 01:49	SMC	EET MID

Client Sample ID: FS54

Lab Sample ID: 890-4607-54

Date Collected: 05/01/23 12:45

Matrix: Solid

Date Received: 05/02/23 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	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS54

Lab Sample ID: 890-4607-54

Date Collected: 05/01/23 12:45

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:05	SMC	EET MID

Client Sample ID: FS55

Lab Sample ID: 890-4607-55

Date Collected: 05/01/23 12:50

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:11	SMC	EET MID

Client Sample ID: FS56

Lab Sample ID: 890-4607-56

Date Collected: 05/01/23 12:55

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 17:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:16	SMC	EET MID

Client Sample ID: FS57

Lab Sample ID: 890-4607-57

Date Collected: 05/01/23 13:00

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 18:09	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS57**Lab Sample ID: 890-4607-57****Date Collected: 05/01/23 13:00****Matrix: Solid****Date Received: 05/02/23 11:24**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:22	SMC	EET MID

Client Sample ID: FS58**Lab Sample ID: 890-4607-58****Date Collected: 05/01/23 13:05****Matrix: Solid****Date Received: 05/02/23 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	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 18:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:27	SMC	EET MID

Client Sample ID: FS59**Lab Sample ID: 890-4607-59****Date Collected: 05/01/23 13:10****Matrix: Solid****Date Received: 05/02/23 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			5.01 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 18:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:32	SMC	EET MID

Client Sample ID: FS60**Lab Sample ID: 890-4607-60****Date Collected: 05/01/23 13:15****Matrix: Solid****Date Received: 05/02/23 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			4.99 g	5 mL	52518	05/03/23 13:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 14:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52678	05/05/23 09:13	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52759	05/06/23 19:13	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52541	05/03/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52774	05/06/23 02:38	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS61

Lab Sample ID: 890-4607-61

Date Collected: 05/01/23 13:20

Matrix: Solid

Date Received: 05/02/23 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			4.98 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 06:24	SMC	EET MID

Client Sample ID: FS62

Lab Sample ID: 890-4607-62

Date Collected: 05/01/23 13:25

Matrix: Solid

Date Received: 05/02/23 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	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 19:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 06:40	SMC	EET MID

Client Sample ID: FS63

Lab Sample ID: 890-4607-63

Date Collected: 05/01/23 13:30

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 20:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 06:45	SMC	EET MID

Client Sample ID: FS64

Lab Sample ID: 890-4607-64

Date Collected: 05/01/23 13:35

Matrix: Solid

Date Received: 05/02/23 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	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 21:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS64

Lab Sample ID: 890-4607-64

Date Collected: 05/01/23 13:35

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 20:18	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 06:51	SMC	EET MID

Client Sample ID: FS65

Lab Sample ID: 890-4607-65

Date Collected: 05/01/23 13:40

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 21:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 06:56	SMC	EET MID

Client Sample ID: FS66

Lab Sample ID: 890-4607-66

Date Collected: 05/01/23 13:45

Matrix: Solid

Date Received: 05/02/23 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			4.95 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 21:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 21:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:12	SMC	EET MID

Client Sample ID: FS67

Lab Sample ID: 890-4607-67

Date Collected: 05/01/23 13:50

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 22:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 21:22	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS67

Lab Sample ID: 890-4607-67

Date Collected: 05/01/23 13:50

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:18	SMC	EET MID

Client Sample ID: FS68

Lab Sample ID: 890-4607-68

Date Collected: 05/01/23 13:55

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 21:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:23	SMC	EET MID

Client Sample ID: FS69

Lab Sample ID: 890-4607-69

Date Collected: 05/01/23 14:00

Matrix: Solid

Date Received: 05/02/23 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	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 22:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:28	SMC	EET MID

Client Sample ID: FS70

Lab Sample ID: 890-4607-70

Date Collected: 05/01/23 14:05

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/06/23 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 22:25	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:34	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS71

Lab Sample ID: 890-4607-71

Date Collected: 05/01/23 14:10

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 01:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 23:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:39	SMC	EET MID

Client Sample ID: FS72

Lab Sample ID: 890-4607-72

Date Collected: 05/01/23 14:15

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 01:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 23:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 07:55	SMC	EET MID

Client Sample ID: FS73

Lab Sample ID: 890-4607-73

Date Collected: 05/01/23 14:20

Matrix: Solid

Date Received: 05/02/23 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	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/05/23 23:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:00	SMC	EET MID

Client Sample ID: FS74

Lab Sample ID: 890-4607-74

Date Collected: 05/01/23 14:25

Matrix: Solid

Date Received: 05/02/23 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			4.95 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 02:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS74

Lab Sample ID: 890-4607-74

Date Collected: 05/01/23 14:25

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:16	SMC	EET MID

Client Sample ID: FS75

Lab Sample ID: 890-4607-75

Date Collected: 05/01/23 14:30

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 00:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:22	SMC	EET MID

Client Sample ID: FS76

Lab Sample ID: 890-4607-76

Date Collected: 05/01/23 14:35

Matrix: Solid

Date Received: 05/02/23 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			5.05 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 03:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 00:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:27	SMC	EET MID

Client Sample ID: FS77

Lab Sample ID: 890-4607-77

Date Collected: 05/01/23 14:40

Matrix: Solid

Date Received: 05/02/23 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			4.96 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 03:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 01:14	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS77

Lab Sample ID: 890-4607-77

Date Collected: 05/01/23 14:40

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:33	SMC	EET MID

Client Sample ID: FS78

Lab Sample ID: 890-4607-78

Date Collected: 05/01/23 14:45

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:38	SMC	EET MID

Client Sample ID: FS79

Lab Sample ID: 890-4607-79

Date Collected: 05/01/23 14:50

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 04:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 01:57	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:43	SMC	EET MID

Client Sample ID: FS80

Lab Sample ID: 890-4607-80

Date Collected: 05/01/23 14:55

Matrix: Solid

Date Received: 05/02/23 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	52519	05/03/23 13:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52693	05/07/23 05:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 11:06	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52712	05/05/23 13:58	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52729	05/06/23 02:19	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52542	05/03/23 14:49	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52772	05/06/23 08:49	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS81

Lab Sample ID: 890-4607-81

Date Collected: 05/01/23 15:00

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 14:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 11:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/08/23 16:03	SMC	EET MID

Client Sample ID: FS82

Lab Sample ID: 890-4607-82

Date Collected: 05/01/23 15:05

Matrix: Solid

Date Received: 05/02/23 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	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 14:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 12:17	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 21:36	SMC	EET MID

Client Sample ID: FS83

Lab Sample ID: 890-4607-83

Date Collected: 05/01/23 15:10

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 15:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 12:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 21:41	SMC	EET MID

Client Sample ID: FS84

Lab Sample ID: 890-4607-84

Date Collected: 05/01/23 15:15

Matrix: Solid

Date Received: 05/02/23 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			5.01 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 15:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS84

Lab Sample ID: 890-4607-84

Date Collected: 05/01/23 15:15

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 13:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 21:57	SMC	EET MID

Client Sample ID: FS85

Lab Sample ID: 890-4607-85

Date Collected: 05/01/23 15:20

Matrix: Solid

Date Received: 05/02/23 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	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 15:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 13:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:03	SMC	EET MID

Client Sample ID: FS86

Lab Sample ID: 890-4607-86

Date Collected: 05/01/23 15:25

Matrix: Solid

Date Received: 05/02/23 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			4.95 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 16:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 13:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:08	SMC	EET MID

Client Sample ID: FS87

Lab Sample ID: 890-4607-87

Date Collected: 05/01/23 15:30

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 16:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 14:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS87

Lab Sample ID: 890-4607-87

Date Collected: 05/01/23 15:30

Matrix: Solid

Date Received: 05/02/23 11:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:14	SMC	EET MID

Client Sample ID: FS88

Lab Sample ID: 890-4607-88

Date Collected: 05/01/23 15:35

Matrix: Solid

Date Received: 05/02/23 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	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 14:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:19	SMC	EET MID

Client Sample ID: FS89

Lab Sample ID: 890-4607-89

Date Collected: 05/01/23 15:40

Matrix: Solid

Date Received: 05/02/23 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			4.99 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 14:53	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:24	SMC	EET MID

Client Sample ID: FS90

Lab Sample ID: 890-4607-90

Date Collected: 05/01/23 15:45

Matrix: Solid

Date Received: 05/02/23 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			5.02 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 15:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:40	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Client Sample ID: FS91
Date Collected: 05/01/23 15:50
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-91
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 19:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/08/23 15:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	52679	05/05/23 09:19	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52761	05/06/23 16:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 22:46	SMC	EET MID

Client Sample ID: FS92
Date Collected: 05/01/23 15:55
Date Received: 05/02/23 11:24

Lab Sample ID: 890-4607-92
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	52520	05/03/23 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/06/23 19:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52655	05/08/23 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52629	05/05/23 15:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.010 g	10 mL	52568	05/04/23 08:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52589	05/04/23 20:09	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52543	05/03/23 14:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52773	05/05/23 23:02	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4607-1	FS01	Solid	05/01/23 08:20	05/02/23 11:24	2'
890-4607-2	FS02	Solid	05/01/23 08:25	05/02/23 11:24	2'
890-4607-3	FS03	Solid	05/01/23 08:30	05/02/23 11:24	2'
890-4607-4	FS04	Solid	05/01/23 08:35	05/02/23 11:24	2'
890-4607-5	FS05	Solid	05/01/23 08:40	05/02/23 11:24	2'
890-4607-6	FS06	Solid	05/01/23 08:45	05/02/23 11:24	1'
890-4607-7	FS07	Solid	05/01/23 08:50	05/02/23 11:24	1'
890-4607-8	FS08	Solid	05/01/23 08:55	05/02/23 11:24	1'
890-4607-9	FS09	Solid	05/01/23 09:00	05/02/23 11:24	1'
890-4607-10	FS10	Solid	05/01/23 09:05	05/02/23 11:24	1'
890-4607-11	FS11	Solid	05/01/23 09:10	05/02/23 11:24	1'
890-4607-12	FS12	Solid	05/01/23 09:15	05/02/23 11:24	1'
890-4607-13	FS13	Solid	05/01/23 09:20	05/02/23 11:24	1'
890-4607-14	FS14	Solid	05/01/23 09:25	05/02/23 11:24	1'
890-4607-15	FS15	Solid	05/01/23 09:30	05/02/23 11:24	1'
890-4607-16	FS16	Solid	05/01/23 09:35	05/02/23 11:24	1'
890-4607-17	FS17	Solid	05/01/23 09:40	05/02/23 11:24	1'
890-4607-18	FS18	Solid	05/01/23 09:45	05/02/23 11:24	1'
890-4607-19	FS19	Solid	05/01/23 09:50	05/02/23 11:24	1'
890-4607-20	FS20	Solid	05/01/23 09:55	05/02/23 11:24	1'
890-4607-21	FS21	Solid	05/01/23 10:00	05/02/23 11:24	1'
890-4607-22	FS22	Solid	05/01/23 10:05	05/02/23 11:24	1'
890-4607-23	FS23	Solid	05/01/23 10:10	05/02/23 11:24	1'
890-4607-24	FS24	Solid	05/01/23 10:15	05/02/23 11:24	1'
890-4607-25	FS25	Solid	05/01/23 10:20	05/02/23 11:24	1'
890-4607-26	FS26	Solid	05/01/23 10:25	05/02/23 11:24	1'
890-4607-27	FS27	Solid	05/01/23 10:30	05/02/23 11:24	1'
890-4607-28	FS28	Solid	05/01/23 10:35	05/02/23 11:24	1'
890-4607-29	FS29	Solid	05/01/23 10:40	05/02/23 11:24	1'
890-4607-30	FS30	Solid	05/01/23 10:45	05/02/23 11:24	1'
890-4607-31	FS31	Solid	05/01/23 10:50	05/02/23 11:24	1'
890-4607-32	FS32	Solid	05/01/23 10:55	05/02/23 11:24	1'
890-4607-33	FS33	Solid	05/01/23 11:00	05/02/23 11:24	1'
890-4607-34	FS34	Solid	05/01/23 11:05	05/02/23 11:24	1'
890-4607-35	FS35	Solid	05/01/23 11:10	05/02/23 11:24	1'
890-4607-36	FS36	Solid	05/01/23 11:15	05/02/23 11:24	1'
890-4607-37	FS37	Solid	05/01/23 11:20	05/02/23 11:24	1'
890-4607-38	FS38	Solid	05/01/23 11:25	05/02/23 11:24	1'
890-4607-39	FS39	Solid	05/01/23 11:30	05/02/23 11:24	1'
890-4607-40	FS40	Solid	05/01/23 11:35	05/02/23 11:24	1'
890-4607-41	FS41	Solid	05/01/23 11:40	05/02/23 11:24	1'
890-4607-42	FS42	Solid	05/01/23 11:45	05/02/23 11:24	1'
890-4607-43	FS43	Solid	05/01/23 11:50	05/02/23 11:24	1'
890-4607-44	FS44	Solid	05/01/23 11:55	05/02/23 11:24	1'
890-4607-45	FS45	Solid	05/01/23 12:00	05/02/23 11:24	1'
890-4607-46	FS46	Solid	05/01/23 12:05	05/02/23 11:24	1'
890-4607-47	FS47	Solid	05/01/23 12:10	05/02/23 11:24	1'
890-4607-48	FS48	Solid	05/01/23 12:15	05/02/23 11:24	1'
890-4607-49	FS49	Solid	05/01/23 12:20	05/02/23 11:24	1'
890-4607-50	FS50	Solid	05/01/23 12:25	05/02/23 11:24	1'
890-4607-51	FS51	Solid	05/01/23 12:30	05/02/23 11:24	1'
890-4607-52	FS52	Solid	05/01/23 12:35	05/02/23 11:24	1'
890-4607-53	FS53	Solid	05/01/23 12:40	05/02/23 11:24	1'
890-4607-54	FS54	Solid	05/01/23 12:45	05/02/23 11:24	1'

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sinks East

Job ID: 890-4607-1
SDG: 03C1558184

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4607-55	FS55	Solid	05/01/23 12:50	05/02/23 11:24	1'
890-4607-56	FS56	Solid	05/01/23 12:55	05/02/23 11:24	1'
890-4607-57	FS57	Solid	05/01/23 13:00	05/02/23 11:24	1'
890-4607-58	FS58	Solid	05/01/23 13:05	05/02/23 11:24	1'
890-4607-59	FS59	Solid	05/01/23 13:10	05/02/23 11:24	1'
890-4607-60	FS60	Solid	05/01/23 13:15	05/02/23 11:24	1'
890-4607-61	FS61	Solid	05/01/23 13:20	05/02/23 11:24	1'
890-4607-62	FS62	Solid	05/01/23 13:25	05/02/23 11:24	1'
890-4607-63	FS63	Solid	05/01/23 13:30	05/02/23 11:24	1'
890-4607-64	FS64	Solid	05/01/23 13:35	05/02/23 11:24	1'
890-4607-65	FS65	Solid	05/01/23 13:40	05/02/23 11:24	1'
890-4607-66	FS66	Solid	05/01/23 13:45	05/02/23 11:24	1'
890-4607-67	FS67	Solid	05/01/23 13:50	05/02/23 11:24	1'
890-4607-68	FS68	Solid	05/01/23 13:55	05/02/23 11:24	1'
890-4607-69	FS69	Solid	05/01/23 14:00	05/02/23 11:24	1'
890-4607-70	FS70	Solid	05/01/23 14:05	05/02/23 11:24	1'
890-4607-71	FS71	Solid	05/01/23 14:10	05/02/23 11:24	1'
890-4607-72	FS72	Solid	05/01/23 14:15	05/02/23 11:24	1'
890-4607-73	FS73	Solid	05/01/23 14:20	05/02/23 11:24	1'
890-4607-74	FS74	Solid	05/01/23 14:25	05/02/23 11:24	1'
890-4607-75	FS75	Solid	05/01/23 14:30	05/02/23 11:24	1'
890-4607-76	FS76	Solid	05/01/23 14:35	05/02/23 11:24	1'
890-4607-77	FS77	Solid	05/01/23 14:40	05/02/23 11:24	1'
890-4607-78	FS78	Solid	05/01/23 14:45	05/02/23 11:24	1'
890-4607-79	FS79	Solid	05/01/23 14:50	05/02/23 11:24	1'
890-4607-80	FS80	Solid	05/01/23 14:55	05/02/23 11:24	1'
890-4607-81	FS81	Solid	05/01/23 15:00	05/02/23 11:24	1'
890-4607-82	FS82	Solid	05/01/23 15:05	05/02/23 11:24	1'
890-4607-83	FS83	Solid	05/01/23 15:10	05/02/23 11:24	1'
890-4607-84	FS84	Solid	05/01/23 15:15	05/02/23 11:24	1'
890-4607-85	FS85	Solid	05/01/23 15:20	05/02/23 11:24	1'
890-4607-86	FS86	Solid	05/01/23 15:25	05/02/23 11:24	1'
890-4607-87	FS87	Solid	05/01/23 15:30	05/02/23 11:24	1'
890-4607-88	FS88	Solid	05/01/23 15:35	05/02/23 11:24	1'
890-4607-89	FS89	Solid	05/01/23 15:40	05/02/23 11:24	1'
890-4607-90	FS90	Solid	05/01/23 15:45	05/02/23 11:24	1'
890-4607-91	FS91	Solid	05/01/23 15:50	05/02/23 11:24	1'
890-4607-92	FS92	Solid	05/01/23 15:55	05/02/23 11:24	1'



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

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Page 1 of 10

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

Work Order Comments	
Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558184	Due Date:			
Project Location:	32.10371, -103.77792	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No	Parameters		
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	17M-9027		
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.02		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	1.02		
Total Containers:		Corrected Temperature:	0.8		



890-4607 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (EPA: 8060)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS01	S	5/1/2023	8:20	2'	Comp	1	X	X	X		None: NO	Incident ID: NAPP2300343390
FS02	S	5/1/2023	8:25	2'	Comp	1	X	X	X		Cool: Cool	Cost Center: 2191961001
FS03	S	5/1/2023	8:30	2'	Comp	1	X	X	X		HCL: HC	
FS04	S	5/1/2023	8:35	2'	Comp	1	X	X	X		H ₂ SO ₄ : H ₂	
FS05	S	5/1/2023	8:40	2'	Comp	1	X	X	X		H ₃ PO ₄ : HP	AFE:
FS06	S	5/1/2023	8:45	1'	Comp	1	X	X	X		NaHSO ₄ : NABIS	
FS07	S	5/1/2023	8:50	1'	Comp	1	X	X	X		Na ₂ S ₂ O ₃ : NaSO ₃	API: 30-015-45732
FS08	S	5/1/2023	8:55	1'	Comp	1	X	X	X		Zn Acetate+NaOH: Zn	
FS09	S	5/1/2023	9:00	1'	Comp	1	X	X	X		NaOH+Ascorbic Acid: SACP	tmorrissey@ensolum.com
FS10	S	5/1/2023	9:05	1'	Comp	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/2/23 09:13			5/2/23 11:24



**Environment Testing
Xenco**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No:

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

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

Project Name:		PLU 28 Big Sinks East		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes				
Project Number:		03C1568184		☒ Routine ☐ Rush													None: NO DI Water: H ₂ O				
Project Location:		32.10371, -103.77792		Due Date:													Cool: Cool MeOH: Me				
Sampler's Name:		Kase Parker		TAT starts the day received by the lab, if received by 4:30pm													HCL: HC HNO ₃ : HN				
PO #:																	H ₂ SO ₄ : H ₂				
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No												H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No		Thermometer ID:																NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NASO ₃	
Sample Custody Seals:		Yes No N/A		Temperature Reading:																Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas '11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																																	
Hg: 1631 / 245.1 / 7470 / 7471																																	

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5/27/2020 11:00			
<i>[Signature]</i>	<i>[Signature]</i>	5/27/2020 11:25			

Revised Date: 08/25/2020 Rev: 2020



Environment Testing
Xenco

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

Chain of Custody

Work Order No:

www.xenco.com Page 3 of 10

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

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

Project Name:		PLU 28 Big Sinks East		Turn Around																Preservative Codes	
Project Number:		03C1558184		☒ Routine ☐ Rush																None: NO DI Water: H ₂ O	
Project Location:		32.10371, -103.77792		Due Date:																Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na	
Sampler's Name:		Kase Parker		TAT starts the day received by the lab, if received by 4:30pm																H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SASC	
PO #:																					
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet/dry		Yes No													
Samples Received Intact:		Yes No		Thermometer:		✓															
Cooler Custody Seals:		Yes No		N/A		Correction Factor:															
Sample Custody Seals:		Yes No		N/A		Temperature Reading:															
Total Containers:				Corrected Temperature:																	
						</															

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg:	163.1 / 245.1	7470	7471				

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<i>[Signature]</i>	<i>[Signature]</i>	12/23/2017			
<i>[Signature]</i>	<i>[Signature]</i>	12/23/2017			

Revised Date: 08/25/2020 Row 2020



Environment Testing
Xenco

Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 10

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

Work Order Comments	
Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558184	Due Date:			
Project Location:	32.10371, -103.77792	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Kase Parker				
PO #:					
SAMPLE RECEIPT					
Samples Received Intact:	Yes No	Thermometer ID:	Yes No	Wet Ice:	Yes No
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST													Sample Comments
							CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	PAHs (4001)	PCBs (4002)	PCDDs (4003)	PCDFs (4004)	PCBz (4005)	PCBz (4006)	PCBz (4007)	PCBz (4008)	PCBz (4009)	PCBz (4010)	
FS31	S	5/1/2023	10:50	1'	Comp	1	X	X	X											Incident ID: NAPP2300343390
FS32	S	5/1/2023	10:55	1'	Comp	1	X	X	X											Cost Center: 2191961001
FS33	S	5/1/2023	11:00	1'	Comp	1	X	X	X											A/E:
FS34	S	5/1/2023	11:05	1'	Comp	1	X	X	X											
FS35	S	5/1/2023	11:10	1'	Comp	1	X	X	X											API:
FS36	S	5/1/2023	11:15	1'	Comp	1	X	X	X											
FS37	S	5/1/2023	11:20	1'	Comp	1	X	X	X											30-015-45732
FS38	S	5/1/2023	11:25	1'	Comp	1	X	X	X											
FS39	S	5/1/2023	11:30	1'	Comp	1	X	X	X											tmorrissey@ensolum.com
FS40	S	5/1/2023	11:35	1'	Comp	1	X	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245 / 17470 / 7471

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		5/1/23 11:30			5/1/23 11:35



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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No:

www.xenco.com Page 5 of 10

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

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

Project Name:		PLU 28 Big Sinks East		Turn Around		ANALYSIS REQUEST														Preservative Codes									
Project Number:		03C1558184		☒ Routine ☐ Rush		Pres. Code																None: NO DI Water: H ₂ O							
Project Location:		32.10371, -103.77792		Due Date:																		Cool: Cool MeOH: Me							
Sampler's Name:		Kase Parker		TAT starts the day received by the lab. if received by 4:30pm																		HCL: HC HNO ₃ : HN							
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes No		Wet Ice:		Yes No																H ₃ PO ₄ : HP					
Samples Received Intact:		Yes No		Thermometer ID:																				NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No N/A		Corrosion Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No N/A		Temperature Reading:																				Zn Acetate+NaOH: Zn					
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont																Sample Comments	
FS41		S		5/1/2023		11:40		1'		Comp		1		CHLORIDES (EPA: 300.0)														Incident ID:	
FS42		S		5/1/2023		11:45		1'		Comp		1		TPH (8015)														NAPP2300343390	
FS43		S		5/1/2023		11:50		1'		Comp		1		BTEX (8021)														Cost Center:	
FS44		S		5/1/2023		11:55		1'		Comp		1																2191961001	
FS45		S		5/1/2023		12:00		1'		Comp		1																AFE:	
FS46		S		5/1/2023		12:05		1'		Comp		1																APL:	
FS47		S		5/1/2023		12:10		1'		Comp		1																30-015-45732	
FS48		S		5/1/2023		12:15		1'		Comp		1																tmorrissey@ensolum.com	
FS49		S		5/1/2023		12:20		1'		Comp		1																	
FS50		S		5/1/2023		12:25		1'		Comp		1																	
Total 200.7 / 6010		200.8 / 6020:		8RCRA		13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn																			
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:		8RCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471																					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time																			
1		[Signature]		[Signature]		5/2/23 11:00		[Signature]		[Signature]		5/2/23 11:05																	
3		[Signature]		[Signature]		5/2/23 11:05		[Signature]		[Signature]		5/2/23 11:05																	
5		[Signature]		[Signature]		5/2/23 11:05		[Signature]		[Signature]		5/2/23 11:05																	



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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 7 of 60

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

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

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	03C1558184															None: NO	DI Water: H ₂ O
Project Location:	32.10371, -103.77792	Due Date:														Cool: Cool	MeOH: Me
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No											H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Thermometer ID:														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No N/A	Temperature Reading:														Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SACP	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLOR	TPH (8)	BTEX											Sample Comments
FS61	S	5/1/2023	13:20	1'	Comp	1	X	X	X											Incident ID: NAPP2300343390
FS62	S	5/1/2023	13:25	1'	Comp	1	X	X	X											Cost Center: 2191961001
FS63	S	5/1/2023	13:30	1'	Comp	1	X	X	X											AFE:
FS64	S	5/1/2023	13:35	1'	Comp	1	X	X	X											
FS65	S	5/1/2023	13:40	1'	Comp	1	X	X	X											API:
FS66	S	5/1/2023	13:45	1'	Comp	1	X	X	X											
FS67	S	5/1/2023	13:50	1'	Comp	1	X	X	X											30-015-45732
FS68	S	5/1/2023	13:55	1'	Comp	1	X	X	X											tmorrissey@ensolum.com
FS69	S	5/1/2023	14:00	1'	Comp	1	X	X	X											
FS70	S	5/1/2023	14:05	1'	Comp	1	X	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

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		5/1/23 01:10			5/1/23 11:25



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Chain of Custody

Work Order No: _____

www.xenco.com Page 4 of 10

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

Work Order Comments	
Program: ☐ UT/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	03C1558184	Due Date:														None: NO	DI Water: H ₂ O
Project Location:	32.10371, -103.77792	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me
Sampler's Name:	Kase Parker															HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No											H ₃ PO ₄ : HP	
Samples Received Intact:		Yes No	Thermometer ID:													NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No	Correction Factor:													Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No	Temperature Reading:													Zn Acetate+NaOH: Zn	
Total Containers:			Corrected Temperature:													NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLOR	TPH (8	BTEX											Sample Comments
FS71	S	5/1/2023	14:10	1'	Comp	1	X	X	X											Incident ID: NAPP2300343390
FS72	S	5/1/2023	14:15	1'	Comp	1	X	X	X											Cost Center: 2191961001
FS73	S	5/1/2023	14:20	1'	Comp	1	X	X	X											AFE: 30-015-45732
FS74	S	5/1/2023	14:25	1'	Comp	1	X	X	X											API: tmorrissey@ensolum.com
FS75	S	5/1/2023	14:30	1'	Comp	1	X	X	X											
FS76	S	5/1/2023	14:35	1'	Comp	1	X	X	X											
FS77	S	5/1/2023	14:40	1'	Comp	1	X	X	X											
FS78	S	5/1/2023	14:45	1'	Comp	1	X	X	X											
FS79	S	5/1/2023	14:50	1'	Comp	1	X	X	X											
FS80	S	5/1/2023	14:55	1'	Comp	1	X	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/23/2023 11:30			5/23/2023 11:35



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Chain of Custody

Work Order No: _____

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

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

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	03C1558184															None: NO	DI Water: H ₂ O
Project Location:	32.10371, -103.77792	Due Date:														Cool: Cool	MeOH: Me
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Well: Yes No													H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Thermometer: Yes No														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No	Correction Factor: Yes No														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No	Temperature Reading: Yes No														Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature: Yes No														NaOH+Ascorbic Acid: SACP	

Sample Identification							Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)										TPH (8015)										BTEX (EPA: 8060)										Other Contaminants										Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
FS81							S	5/1/2023	15:00	1'	Comp	1	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/13/23 11:20			5/13/23 11:25



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No: _____

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

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	PLU 28 Big Sinks East	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number:	03C1558184	Due Date:																			None: NO	DI Water: H ₂ O		
Project Location:	32.10371, -103.77792	TAT starts the day received by the lab, if received by 4:30pm																			Cool: Cool	MeOH: Me		
Sampler's Name:	Kase Parker																				HCL: HC	HNO ₃ : HN		
PO #:																					H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice	Yes No																	H ₃ PO ₄ : HP		
Samples Received Intact:	Yes No	Thermometer ID:																				NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes No N/A	Correction Factor:																				Na ₂ S ₂ O ₃ : NASO ₃		
Sample Custody Seals:	Yes No N/A	Temperature Reading:																				Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC		
Parameters					CHLORIDES (EPA: 300.0)																		Sample Comments	
					TPH (8015)																		Incident ID:	
					BTX (8021)																		NAPP2300343390	
																							Cost Center:	
																							2191961001	
																							AEI:	
																							API:	
																							30-015-45732	
																							tmorrissey@ensolum.com	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/12/2023 11:00			5/12/2023 11:00

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4607-1

SDG Number: 03C1558184

Login Number: 4607

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4607-1

SDG Number: 03C1558184

Login Number: 4607

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/03/23 10:57 AM

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



APPENDIX E

NMOCD Notifications

From: [Hamlet, Robert, EMNRD](#)
To: [Collins, Melanie](#)
Cc: [Tacoma Morrissey](#); [Ashley Ager](#); [Green, Garrett J](#); [DelawareSpills /SM](#); [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)
Subject: (Extension Approval) - XTO - PLU 28 Big Sinks East/ Incident Number nAPP2300343390
Date: Wednesday, March 29, 2023 11:19:55 AM

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2300343390**

Melanie,

Your request for an extension to **June 20th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Monday, March 20, 2023 2:08 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Ashley Ager <aager@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO- Extension Request- PLU 28 Big Sinks East/ Incident Number nAPP2300343390

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

All,

XTO is requesting an extension for the current deadline of March 22, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for PLU 28 Big Sinks East (Incident Number nAPP2300343390). The release was discovered on December 22, 2022. Initial site assessment activities and remediation activities have been ongoing and based on the most

recent laboratory analytical reports, additional work is warranted. To complete additional remediation activities and submit a remediation work plan or closure report, XTO requests a 90-day extension of this deadline until June 20, 2023.

Thank you,
Melanie Collins
XTO Energy. Inc.
Midland, TX

From: [Green, Garrett J](#)
To: [Tacoma Morrissey](#)
Subject: FW: [EXTERNAL] XTO - Sampling Notification (Week of 4/24/23 - 4/28/23)
Date: Friday, April 21, 2023 8:16:53 AM

[**EXTERNAL EMAIL**]

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, April 20, 2023 3:31 PM
To: Green, Garrett J <garrett.green@exxonmobil.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] XTO - Sampling Notification (Week of 4/24/23 - 4/28/23)

External Email – Think Before You Click

Garrett.

Please be aware that notification requirements are **two business days**, per rule. When sampling at multiple sites over multiple days please provide dates for each site. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, April 20, 2023 10:01 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>

Subject: [EXTERNAL] XTO - Sampling Notification (Week of 4/24/23 - 4/28/23)

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

All,

XTO plans to complete final sampling activities at the sites listed below for the week of April 24, 2023.

Tuesday

- PLU 420/ nAB1834656162

Wednesday

- PLU 420/ nAB1834656162

Thursday

- PLU Big Sinks East/ nAPP2300343390

Friday

- PLU Big Sinks East/ nAPP2300343390

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

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

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

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

CONDITIONS

Action 233240

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 233240
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2300343390 PLU 28 BIG SINKS EAST TANK BATTERY, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	12/20/2023