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	NAPP2210143304
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.105985 Longitude -103.78779
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 28 BIG SINKS 127H (ROW 5)	Site Type Pipeline
Date Release Discovered 03/29/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 19.24	Volume Recovered (bbls) 0.00
	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 4" poly flow line ruptured in the ROW, releasing fluids to soil. A third-party contractor has been retained for remediation purposes.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2210143304
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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.

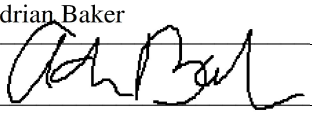
If all the actions described above have not been undertaken, explain why:

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: Adrian Baker Title: SSHE Coordinator

Signature:  Date: 4/11/22

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: Jocelyn Harimon Date: 04/11/2022

Location:	ROW 5 Pipeline	
Spill Date:	3/29/2022	
Area 1		
Approximate Area =	8642.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	19.24	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**19.24**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

Incident ID	NAPP2210143304
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ 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

Incident ID	NAPP2210143304
District RP	
Facility ID	
Application ID	

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

Printed Name: ___Garrett Green_____ Title: __Environmental Coordinator_____

Signature:_____ Date: __7/27/2022_____

email: __Garrett.Green@ExxonMobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: __Jocelyn Harimon_____ Date: __07/27/2022____

Incident ID	NAPP2210143304
District RP	
Facility ID	
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: Garret Green Title: Environmental Coordinator

Signature: Garret Green Date: 7/27/2022

email: Garrett.Green@ExxonMobil.com Telephone: 575-200-0729

OCD Only

Received by: Jocelyn Harimon Date: 07/27/2022

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: Jennifer Nobui Date: 08/23/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

ENSOLUM

July 27, 2022

District II
New Mexico Oil Conservation Division
811 S. First St.
Artesia, New Mexico 88210

Re: Closure Request
PLU 28 Big Sinks 127H (ROW 5)
Incident Number NAPP2210143304
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the PLU 28 Big Sinks 127H (ROW 5) (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2210143304.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 28, Township 25 South, Range 31 East, in Eddy County, New Mexico (32.105985° N, 103.78779° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On March 29, 2022, a 4-inch poly flowline ruptured, resulting in the release of approximately 19.24 barrels (bbls) of produced water onto the surrounding right-of-way (ROW). Released fluids were not recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 11, 2022. The release was assigned Incident Number NAPP2210143304.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On March 24, 2021, a soil boring (C-4500) was drilled 0.3 miles southeast of the Site utilizing a track-mounted hollow-stem auger rig. Soil Boring C-4500 was drilled to a depth of 110 feet bgs. The location of the borehole

is approximately 1,700 feet southeast of the relase area and is depicted in Figure 1. 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 the groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record and Log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 5,800 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On May 24, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight preliminary assessment soil samples (SS01 through SS08) were collected within and around the release extent from a depth of 0.5 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated that chloride concentrations exceeded the reclamation standard. Laboratory analytical results for preliminary soil samples SS05 through SS08 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 9, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities. Four potholes (PH01 through PH04) were advanced via backhoe within the release extent to assess the vertical extent of impacted soil. Delineation potholes were advanced at preliminary soil sample SS01 through SS04 locations, respectively. Delineation soil samples were collected from each pothole from depths ranging from 2 to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH04, collected beneath preliminary soil sample locations SS01 through SS04 locations, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between June 9, 2022 and July 13, 2022, impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, soil was screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 0.5 feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from the ground surface to a maximum 4 feet bgs. Composite soil samples FS01 through FS50 were collected from the floor of the excavation from depths ranging from 0.5 feet to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 9,255 square feet. A total of approximately 1,371 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the excavation floor samples FS01, FS02, FS04 through FS22, FS24, FS26 through FS44, and FS46 through FS50, and excavation sidewalls SW01 and SW03, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standard and no further excavation was required.

Laboratory analytical results for excavation soil samples FS03, FS23, FS25, FS45, and SW02, indicated chloride concentrations initially exceeded the reclamation standard. Additional impacted soil was

removed from the areas, and subsequent excavation samples FS03A, FS23A, FS25A, FS45A, and SW03, were collected. At the completion of excavation activities, all floor samples and final sidewall samples were compliant with the Site Closure Criteria and compliant with the reclamation standard. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

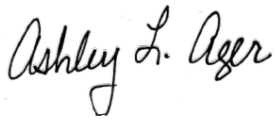
Site assessment and excavation activities were conducted at the Site to address the March 29, 2022, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standard. Based on the soil sample laboratory analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed ROW area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted soil has mitigated impacts at this Site and XTO respectfully requests closure for Incident Number NAPP2210143304.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 496-1093 or aager@ensolum.com.

Sincerely,
Ensolum, LLC

Hadlie Green
Field Geologist



Ashley Ager
Program Director

cc: Garrett Green, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Well Record and Log
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Sample Notification

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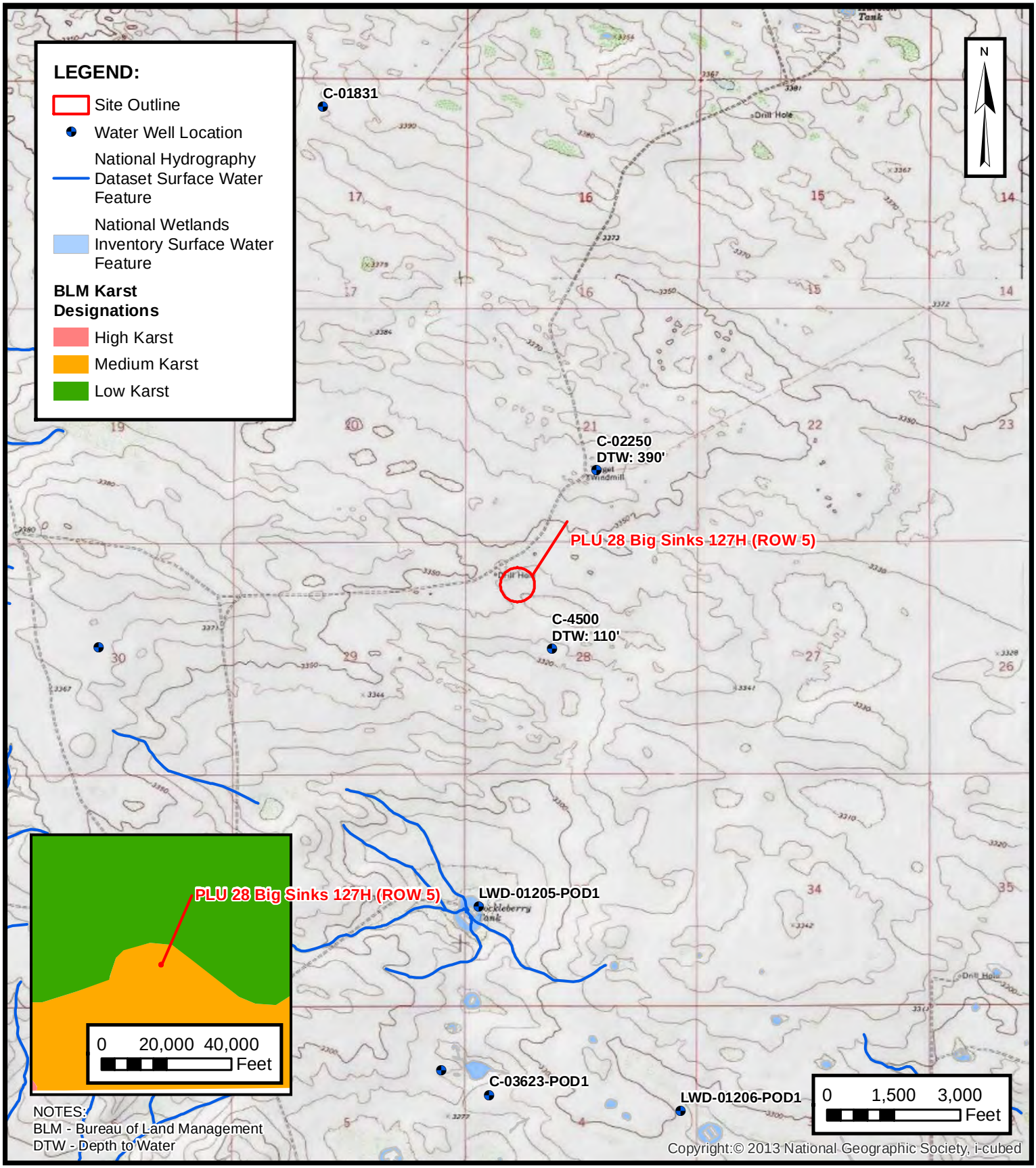
FIGURES



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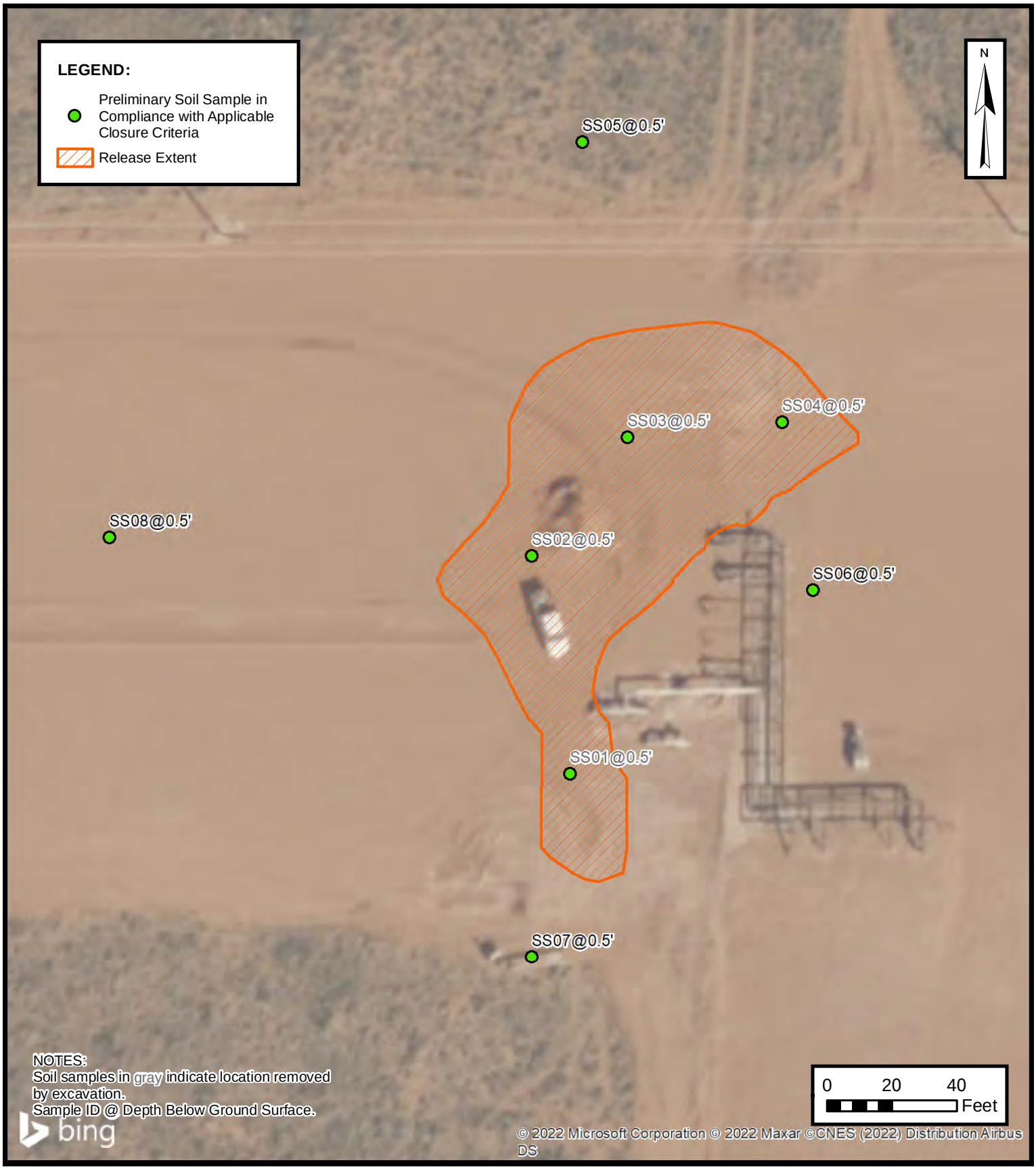
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
PLU 28 BIG SINKS 127H (ROW 5)
NAPP2210143304
Unit D, Section 28, Township 25S, Range 31E
Eddy County, New Mexico

FIGURE
1



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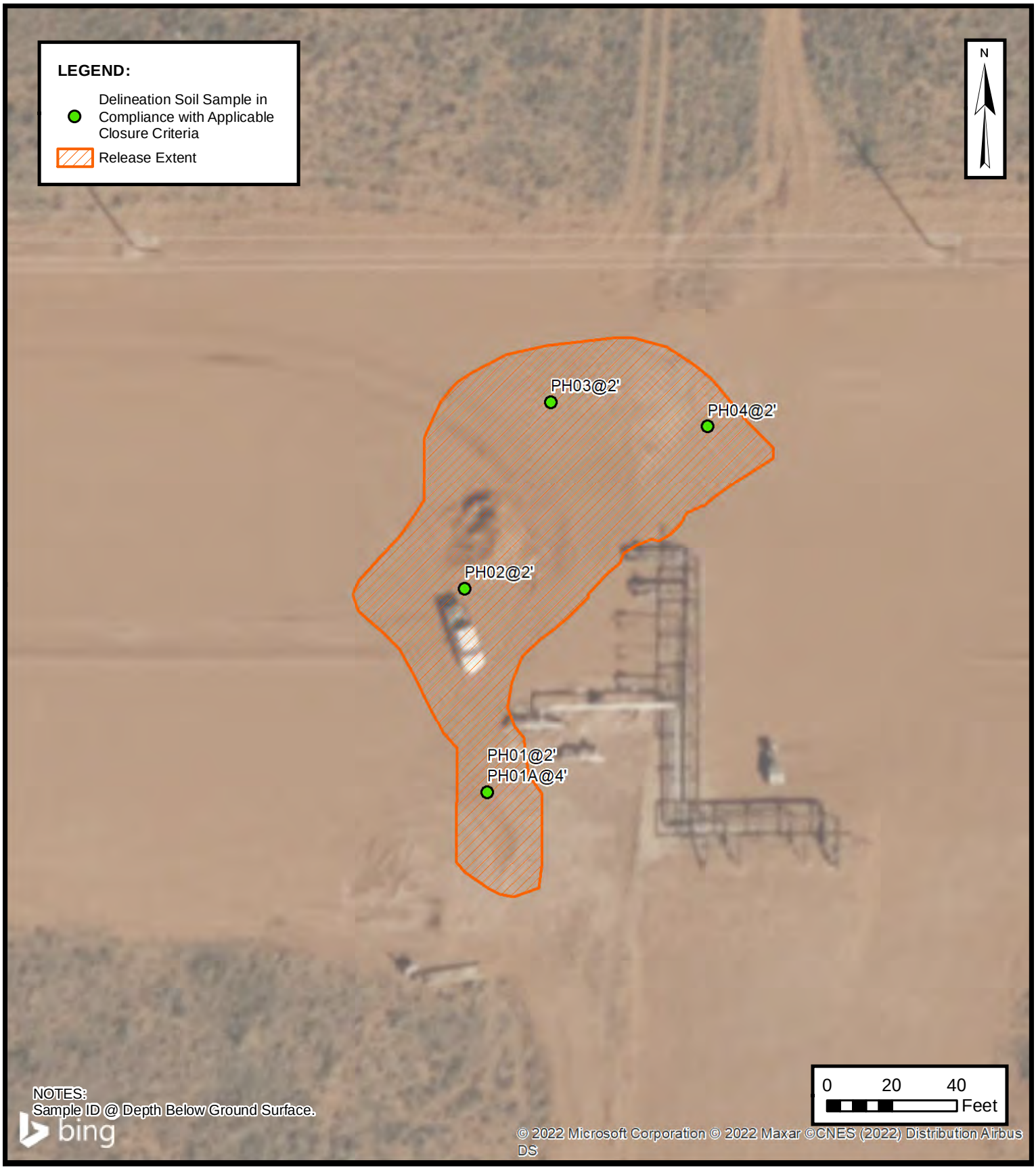
PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU 28 BIG SINKS 127H (ROW 5)
NAPP2210143304
Unit D, Section 28, Township 25S, Range 31E
Eddy County, New Mexico

FIGURE
2



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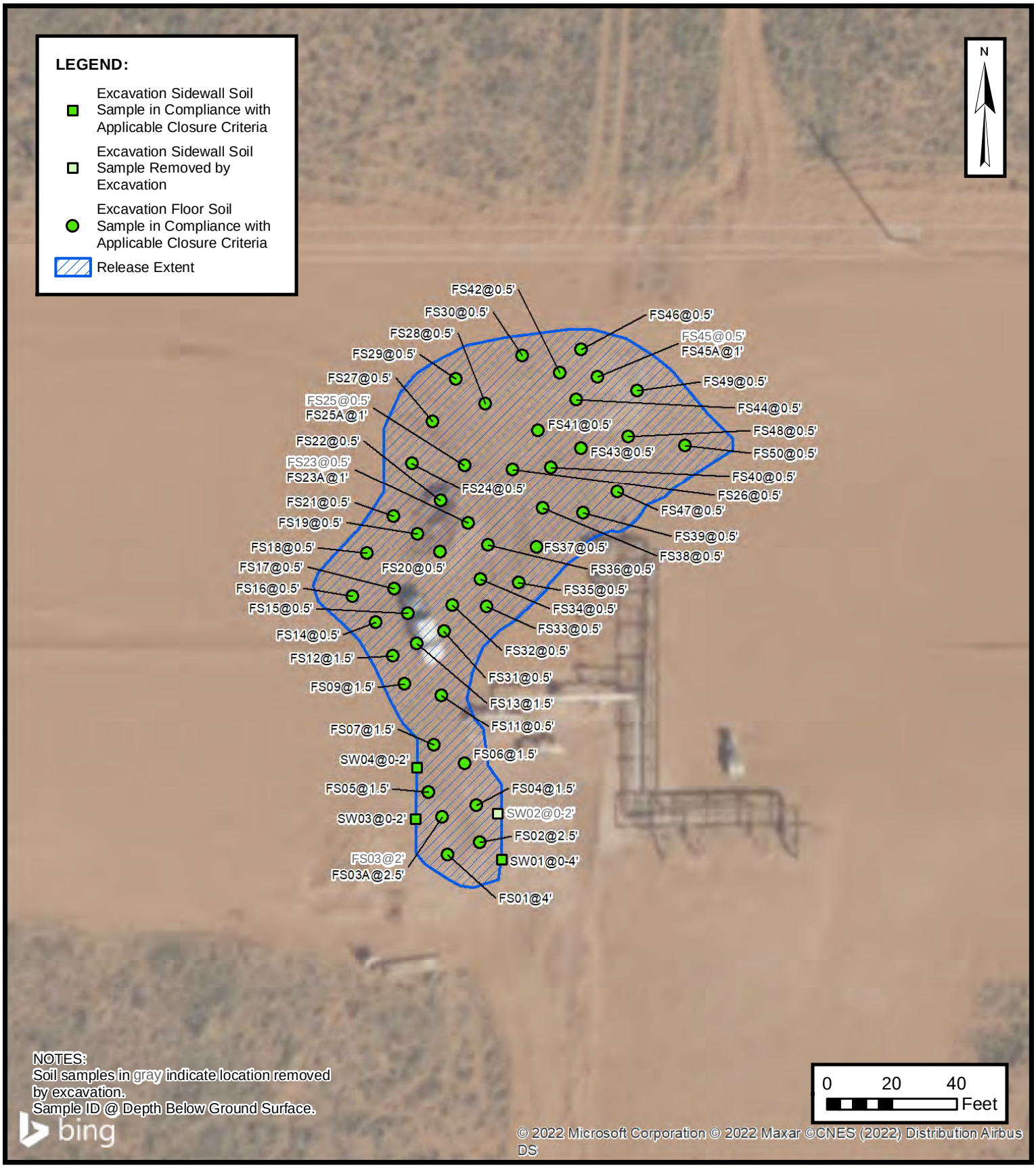
DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU 28 BIG SINKS 127H (ROW 5)
NAPP2210143304
Unit D, Section 28, Township 25S, Range 31E
Eddy County, New Mexico

FIGURE
3



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Environmental & Hydrogeologic Consultants

EXCAVATION SOIL SAMPLES

XTO ENERGY, INC
PLU 28 BIG SINKS 127H (ROW 5)
NAPP2210143304
Unit D, Section 28, Township 25S, Range 31E
Eddy County, New Mexico

FIGURE
4

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Big Sinks 127H (ROW 5)
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Samples										
SS01	05/24/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	4,500*
SS02	05/24/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	3,590*
SS03	05/24/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,670*
SS04	05/24/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	647*
SS05	05/24/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	83.6*
SS06	05/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	141*
SS07	05/24/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	10.4*
SS08	05/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	24.4*
Delineation Soil Samples										
PH01	06/09/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	188*
PH01A	06/09/2022	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	142
PH02	06/09/2022	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	141*
PH03	06/09/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	19.3*
PH04	06/09/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	140*
Excavation Floor Soil Samples										
FS01	06/23/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	364
FS02	06/23/2022	2.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	9.75*
FS03	06/23/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	688*
FS03A	07/13/2022	2.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	31.5*
FS04	06/23/2022	1.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	419*
FS05	06/23/2022	1.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	199*
FS06	06/21/2022	1.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	313*
FS07	06/23/2022	1.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	153*
FS08	06/21/2022	1.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	101*
FS09	06/21/2022	1.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	43.3*
FS10	06/21/2022	1.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	92.2*
FS11	06/21/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	203*
FS12	06/21/2022	1.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	87.2*
FS13	06/21/2022	1.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	168*
FS14	06/21/2022	0.5	<0.00200	<0.00399	<50.0	74.5	<50.0	74.5	74.5	459*
FS15	06/21/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	587*

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Big Sinks 127H (ROW 5)
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS16	06/21/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	121*
FS17	06/21/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	84.9*
FS18	06/21/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	304*
FS19	06/21/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	31.4*
FS20	06/21/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	161*
FS21	06/21/2022	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	63.4*
FS22	06/21/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	164*
FS23	06/21/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	777*
FS23A	07/13/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	68.1*
FS24	06/23/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	215*
FS25	06/21/2022	0.5	<0.00200	<0.00399	<50.0	85.9	<50.0	85.9	85.9	790*
FS25A	07/13/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	217*
FS26	06/21/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	209*
FS27	06/23/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	39.3*
FS28	06/23/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.8*
FS30	06/23/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	130*
FS31	06/23/2022	0.5	<0.00202	<0.00403	<49.9	98.6	<49.9	98.6	98.6	63.3*
FS32	06/23/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	74.9*
FS33	06/23/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	64.4*
FS34	06/23/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	18.3*
FS35	06/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	7.93*
FS36	06/23/2022	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	22.4*
FS37	06/23/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	108*
FS38	06/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	262*
FS40	06/23/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	474*

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU Big Sinks 127H (ROW 5)
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS41	06/23/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	453*
FS42	06/23/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	475*
FS43	06/23/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11.6*
FS44	06/23/2022	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	244*
FS45	06/23/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**1,080***
FS45A	07/13/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	98.2*
FS46	06/23/2022	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	31.4*
FS47	06/23/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	186*
FS48	06/23/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	564*
FS49	06/23/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	9.05*
FS50	06/23/2022	0.5	<0.00200	0.0360	<50.0	<50.0	<50.0	<50.0	<50.0	144*
Excavation Sidewall Soil Samples										
SW01	06/23/2022	0-4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	115*
SW02	06/23/2022	0-2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	**1,570***
SW03	07/13/2022	0-2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	510*

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg

Grey text represents samples that have been excavated

ENSOLUM

APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4500

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

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

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	6	6.96	N
	LONGITUDE	103	47	6.75	W

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

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

SE NW Sec. 28 T25S R31E

2. DRILLING & CASING INFORMATION

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

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
03/24/2021	03/24/2021	temporary well material	110	n/a

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

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

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

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	±6.5	Boring- HSA	--	--	--	--

OSE DIT MAY 5 2021 RECEIVED

3. ANNULAR MATERIAL

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

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

FILE NO.	C-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) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	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	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION: 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.

RECEIVED OSE NOV 5 2021 PM4:00

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:

Jack Atkins — Jackie D. Atkins — 05/05/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

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

FILE NO. C-4500	POD NO. 1	TRN NO. 682534
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 320643103465002

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

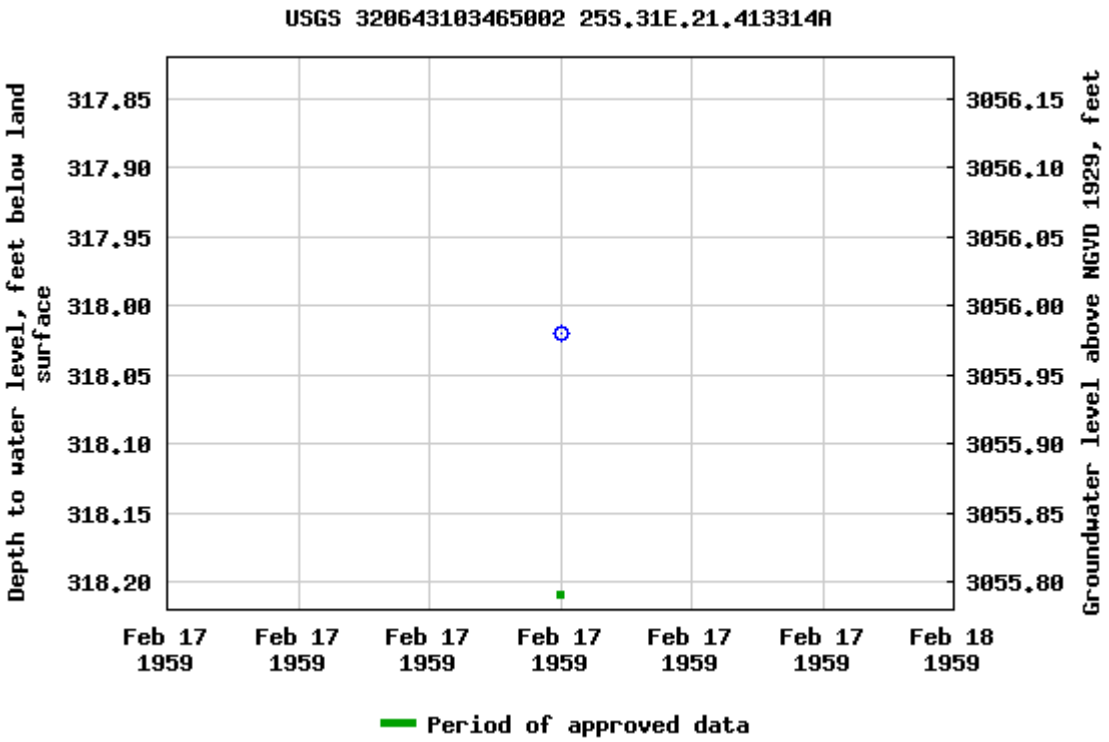
USGS 320643103465002 25S.31E.21.413314A

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83
Land-surface elevation 3,374.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-20 16:17:11 EDT
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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320643103465002

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320643103465002 25S.31E.21.413314A

Eddy County, New Mexico
Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83
Land-surface elevation 3,374.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
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This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-02-17		D	62610		3055.98	NGVD29	P	Z		
1959-02-17		D	62611		3057.66	NAVD88	P	Z		
1959-02-17		D	72019	318.02			P	Z		
2013-01-17	19:40 UTC	m	62610			NGVD29	D	S	USGS	
2013-01-17	19:40 UTC	m	62611			NAVD88	D	S	USGS	
2013-01-17	19:40 UTC	m	72019				D	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	D	Dry
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-20 16:19:14 EDT
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APPENDIX B

Photographic Log

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Photographic Log
XTO Energy, Inc.
PLU 28 Big Sinks 127H (ROW 5)
Incident Number NAPP2210143304

Photograph 1 Date: May 24, 2022
Description: Photo of visible staining taken during initial site assessment, facing southeast.

Photograph 2 Date: May 24, 2022
Description: Photo of initial release taken during initial site assessment, facing south.

Photograph 3 Date: June 23, 2022
Description: Photo of final excavation extent, facing north.

Photograph 4 Date: June 23, 2022
Description: Photo of final excavation extent, facing north.

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM	Sample Name: **PH01**	Date: **5/24/22-6/9/22**
	Site Name: **PLU 28 Big Sinks 127H (ROW 5)**	
	Incident Number: **NAPP2210143304**	
	Job Number: 03E1558055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: KP, CS	Method: **Hand Auger**
Coordinates: **32.1057741, -103.7878263**	Hole Diameter: 4"	Total Depth: **4 feet**

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. No correction factors included. SAA-Same As Above

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	6,076	0.6	N	SS01	0.5	0.5	SM	SAND, reddish brown, fine grain, abundant silt, well graded, well sorted, no stain, no odor.
D	190.4	0.0	N			1	SM	SAA
D	257.6	0.0	N	PH01	2	2	SM	SAA
D	436.8	0.0	N			3	SM	SAA
D	162.4	0.0	N	PH01A	4	4	CCHE	CALICHE, reddish brown, abundant sand and silt, well graded, well sorted, no stain, no odor.

TD @ 4 feet bgs

ENSOLUM

	Sample Name: **PH02**	Date: **5/24/22-6/9/22**
	Site Name: **PLU 28 Big Sinks 127H (ROW 5)**	
	Incident Number: **NAPP2210143304**	
	Job Number: 03E1558055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: KP, CS	Method: **Hand Auger**
Coordinates: **32.1059586, -103.7878649**	Hole Diameter: 4"	Total Depth: **2 feet**

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. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	3,763	0.2	N	SS02	0.5	0.5	CCHE	CALICHE, red, abundant silt, fine grain with caliche gravel, moderate sorting, well graded, no stain, no odor.
D	<167	0.0	N			1	CCHE	SAA
D	<167	0.0	N	PH02	2	2	CCHE	SAA

TD @ 2 feet bgs

ENSOLUM

	Sample Name: **PH03**	Date: **5/24/22-6/9/22**
	Site Name: **PLU 28 Big Sinks 127H (ROW 5)**	
	Incident Number: **NAPP2210143304**	
	Job Number: 03E1558055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: KP, CS	Method: **Hand Auger**
Coordinates: **32.1060574, -103.7877704**	Hole Diameter: 4"	Total Depth: **2 feet**

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. No correction factors included. SAA-Same As Above.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	2,648	0.8	N	SS03	0.5	0.5	CCHE	CALICHE, red, abundant silt, fine grain with caliche gravel, moderate sorting, well graded, no stain, no odor.
D	341.6	0	N			1	SM	SAND, reddish brown, abundant silt, fine grain, well sorted, well graded, no stain, no odor.
D	<167	0	N	PH03	2	2	SM	SAA

TD @ 2 feet bgs

ENSOLUM

	Sample Name: **PH04**	Date: **5/24/22-6/9/22**
	Site Name: **PLU 28 Big Sinks 127H (ROW 5)**	
	Incident Number: **NAPP2210143304**	
	Job Number: 03E1558055	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: KP, CS	Method: **Hand Auger**
Coordinates: **32.1060694, -103.7876169**	Hole Diameter: 4"	Total Depth: **2 feet**

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. No correction factors included. SAA - Same As Above.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	800	0.0	N	SS04	0.5	0.5	SM	SAND, reddish brown, abundant silt, fine grain, well graded, well sorted, no stain, no odor.
D	<167	0.0	N			1	SM	SAA
D	190.4	0.0	N	PH04	2	2	SM	SAA

TD @ 2 feet bgs

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2346-1
Laboratory Sample Delivery Group: 03E155805
Client Project/Site: PLU BIG SINKS 127H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
6/3/2022 9:23:13 AM

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

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

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

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Laboratory Job ID: 890-2346-1
SDG: 03E155805

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Job ID: 890-2346-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2346-1

Receipt
The samples were received on 5/25/2022 4:13 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 5.8°C

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-26434 and analytical batch 880-26400 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26334 and analytical batch 880-26500 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.The associated samples are: SS04 (890-2346-4), SS05 (890-2346-5), SS06 (890-2346-6), SS08 (890-2346-8), (890-2346-A-4-B MS) and (890-2346-A-4-C 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 BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS01

Lab Sample ID: 890-2346-1

Date Collected: 05/24/22 11:35
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/27/22 14:42	06/02/22 13:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/27/22 14:42	06/02/22 13:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/27/22 14:42	06/02/22 13:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/27/22 14:42	06/02/22 13:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/27/22 14:42	06/02/22 13:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/27/22 14:42	06/02/22 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:59*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		05/27/22 11:23	05/27/22 22:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/27/22 22:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/27/22 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/27/22 11:23*	*05/27/22 22:39*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/27/22 11:23*	*05/27/22 22:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4500**		24.8		mg/Kg			05/29/22 19:40	5

Client Sample ID: SS02

Lab Sample ID: 890-2346-2

Date Collected: 05/24/22 11:40
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/27/22 14:42*	*06/02/22 14:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS02

Lab Sample ID: 890-2346-2
Matrix: Solid
Date Collected: 05/24/22 11:40
Date Received: 05/25/22 16:13
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/27/22 14:42*	*06/02/22 14:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/27/22 11:23	05/27/22 23:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/27/22 11:23	05/27/22 23:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/22 11:23	05/27/22 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/27/22 11:23*	*05/27/22 23:43*	*1*
o-Terphenyl	*104*		*70 - 130*	*05/27/22 11:23*	*05/27/22 23:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3590**		24.8	mg/Kg			05/29/22 19:46	5

Client Sample ID: SS03

Lab Sample ID: 890-2346-3
Matrix: Solid
Date Collected: 05/24/22 11:45
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/22 14:42	06/02/22 14:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/22 14:42	06/02/22 14:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/27/22 14:42	06/02/22 14:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/22 14:42	06/02/22 14:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/27/22 14:42	06/02/22 14:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/22 14:42	06/02/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/27/22 14:42*	*06/02/22 14:40*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/27/22 14:42*	*06/02/22 14:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/31/22 11:20	1

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS03

Lab Sample ID: 890-2346-3
Matrix: Solid
Date Collected: 05/24/22 11:45
Date Received: 05/25/22 16:13
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:05*	*1*
o-Terphenyl	*109*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2670**		24.9		mg/Kg			05/29/22 19:53	5

Client Sample ID: SS04

Lab Sample ID: 890-2346-4
Matrix: Solid
Date Collected: 05/24/22 11:50
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 15:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 15:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/27/22 14:42	06/02/22 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 15:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/27/22 14:42	06/02/22 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:00*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 00:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 00:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:27*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS04

Lab Sample ID: 890-2346-4
Matrix: Solid
Date Collected: 05/24/22 11:50
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	647	F1	4.99		mg/Kg			05/29/22 19:59	1

Client Sample ID: SS05

Lab Sample ID: 890-2346-5
Matrix: Solid
Date Collected: 05/24/22 13:30
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 15:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 15:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 15:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/27/22 14:42	06/02/22 15:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 15:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/27/22 14:42	06/02/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:21*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/27/22 11:23	05/28/22 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:49*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/27/22 11:23*	*05/28/22 00:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.6		5.00		mg/Kg			05/29/22 20:18	1

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS06

Lab Sample ID: 890-2346-6
Matrix: Solid
Date Collected: 05/24/22 13:35
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 15:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 15:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 15:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 15:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 15:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:41*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/27/22 14:42*	*06/02/22 15:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:11*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		4.95		mg/Kg			05/29/22 20:24	1

Client Sample ID: SS07

Lab Sample ID: 890-2346-7
Matrix: Solid
Date Collected: 05/24/22 13:40
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 16:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 16:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 16:02	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/27/22 14:42	06/02/22 16:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/27/22 14:42	06/02/22 16:02	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/27/22 14:42	06/02/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/27/22 14:42*	*06/02/22 16:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS07

Lab Sample ID: 890-2346-7
Matrix: Solid
Date Collected: 05/24/22 13:40
Date Received: 05/25/22 16:13
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/27/22 14:42*	*06/02/22 16:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/31/22 11:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:32*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.4**		5.00		mg/Kg			05/29/22 20:43	1

Client Sample ID: SS08

Lab Sample ID: 890-2346-8
Matrix: Solid
Date Collected: 05/24/22 13:45
Date Received: 05/25/22 16:13
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 16:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 16:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 16:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 16:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/27/22 14:42	06/02/22 16:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/27/22 14:42	06/02/22 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/27/22 14:42*	*06/02/22 16:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/27/22 14:42*	*06/02/22 16:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/22 09:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/31/22 11:20	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS08

Lab Sample ID: 890-2346-8
Matrix: Solid
Date Collected: 05/24/22 13:45
Date Received: 05/25/22 16:13
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/28/22 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:54*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/27/22 11:23*	*05/28/22 01:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.4**		5.05		mg/Kg			05/29/22 20:50	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

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)										
890-2346-1	SS01	111	104										
890-2346-1 MS	SS01	101	100										
890-2346-1 MSD	SS01	104	102										
890-2346-2	SS02	107	100										
890-2346-3	SS03	109	102										
890-2346-4	SS04	104	101										
890-2346-5	SS05	108	92										
890-2346-6	SS06	111	102										
890-2346-7	SS07	109	103										
890-2346-8	SS08	109	101										
LCS 880-26459/1-A	Lab Control Sample	103	102										
LCSD 880-26459/2-A	Lab Control Sample Dup	101	97										
MB 880-26459/5-A	Method Blank	97	99										

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-2346-1	SS01	105	117										
890-2346-1 MS	SS01	108	104										
890-2346-1 MSD	SS01	95	89										
890-2346-2	SS02	94	104										
890-2346-3	SS03	101	109										
890-2346-4	SS04	97	105										
890-2346-5	SS05	92	96										
890-2346-6	SS06	102	111										
890-2346-7	SS07	87	93										
890-2346-8	SS08	98	107										
LCS 880-26434/2-A	Lab Control Sample	106	102										
LCSD 880-26434/3-A	Lab Control Sample Dup	108	104										
MB 880-26434/1-A	Method Blank	97	113										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26459/5-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26459

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/27/22 14:42	06/02/22 13:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/27/22 14:42	06/02/22 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/27/22 14:42*	*06/02/22 13:30*	*1*

Lab Sample ID: LCS 880-26459/1-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26459

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09188		mg/Kg		92	70 - 130		
Toluene			0.100	0.09692		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09289		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.2122		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1052		mg/Kg		105	70 - 130		

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

Lab Sample ID: LCSD 880-26459/2-A
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26459

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08482		mg/Kg		85	70 - 130	8	35
Toluene			0.100	0.09263		mg/Kg		93	70 - 130	5	35
Ethylbenzene			0.100	0.08725		mg/Kg		87	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1995		mg/Kg		100	70 - 130	6	35
o-Xylene			0.100	0.09854		mg/Kg		99	70 - 130	7	35

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

Lab Sample ID: 890-2346-1 MS
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26459

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08250		mg/Kg		82	70 - 130		
Toluene	<0.00201	U	0.100	0.08669		mg/Kg		87	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

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

Lab Sample ID: 890-2346-1 MS
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26459

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.07650		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1705		mg/Kg		85	70 - 130
o-Xylene	<0.00201	U	0.100	0.08654		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2346-1 MSD
Matrix: Solid
Analysis Batch: 26715

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26459

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08808		mg/Kg		88	70 - 130	7	35
Toluene	<0.00201	U	0.0996	0.09471		mg/Kg		95	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.0996	0.08391		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1897		mg/Kg		95	70 - 130	11	35
o-Xylene	<0.00201	U	0.0996	0.09432		mg/Kg		95	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-26434/1-A
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26434

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		05/27/22 11:23	05/27/22 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/27/22 21:34	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/27/22 11:23	05/27/22 21:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/27/22 11:23*	*05/27/22 21:34*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/27/22 11:23*	*05/27/22 21:34*	*1*

Lab Sample ID: LCS 880-26434/2-A
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	869.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1021		mg/Kg		102	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

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

Lab Sample ID: LCS 880-26434/2-A
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26434

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-26434/3-A
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26434

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	825.3		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1043		mg/Kg		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-2346-1 MS
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26434

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	1000	1124		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1153		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-2346-1 MSD
Matrix: Solid
Analysis Batch: 26400

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 26434

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 F2	999	833.6	F2	mg/Kg		83	70 - 130	30	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	993.4		mg/Kg		99	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26334/1-A
Matrix: Solid
Analysis Batch: 26500

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			05/29/22 18:12	1

Lab Sample ID: LCS 880-26334/2-A
Matrix: Solid
Analysis Batch: 26500

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 880-26334/3-A
Matrix: Solid
Analysis Batch: 26500

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	256.4		mg/Kg		103	90 - 110	2	20

Lab Sample ID: 890-2346-4 MS
Matrix: Solid
Analysis Batch: 26500

Client Sample ID: SS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	647	F1	250	861.4	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-2346-4 MSD
Matrix: Solid
Analysis Batch: 26500

Client Sample ID: SS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	647	F1	250	862.8	F1	mg/Kg		87	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

GC VOA

Prep Batch: 26459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	5035	
890-2346-2	SS02	Total/NA	Solid	5035	
890-2346-3	SS03	Total/NA	Solid	5035	
890-2346-4	SS04	Total/NA	Solid	5035	
890-2346-5	SS05	Total/NA	Solid	5035	
890-2346-6	SS06	Total/NA	Solid	5035	
890-2346-7	SS07	Total/NA	Solid	5035	
890-2346-8	SS08	Total/NA	Solid	5035	
MB 880-26459/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26459/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26459/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2346-1 MS	SS01	Total/NA	Solid	5035	
890-2346-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 26715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	8021B	26459
890-2346-2	SS02	Total/NA	Solid	8021B	26459
890-2346-3	SS03	Total/NA	Solid	8021B	26459
890-2346-4	SS04	Total/NA	Solid	8021B	26459
890-2346-5	SS05	Total/NA	Solid	8021B	26459
890-2346-6	SS06	Total/NA	Solid	8021B	26459
890-2346-7	SS07	Total/NA	Solid	8021B	26459
890-2346-8	SS08	Total/NA	Solid	8021B	26459
MB 880-26459/5-A	Method Blank	Total/NA	Solid	8021B	26459
LCS 880-26459/1-A	Lab Control Sample	Total/NA	Solid	8021B	26459
LCSD 880-26459/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26459
890-2346-1 MS	SS01	Total/NA	Solid	8021B	26459
890-2346-1 MSD	SS01	Total/NA	Solid	8021B	26459

Analysis Batch: 26792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	Total BTEX	
890-2346-2	SS02	Total/NA	Solid	Total BTEX	
890-2346-3	SS03	Total/NA	Solid	Total BTEX	
890-2346-4	SS04	Total/NA	Solid	Total BTEX	
890-2346-5	SS05	Total/NA	Solid	Total BTEX	
890-2346-6	SS06	Total/NA	Solid	Total BTEX	
890-2346-7	SS07	Total/NA	Solid	Total BTEX	
890-2346-8	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 26400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	8015B NM	26434
890-2346-2	SS02	Total/NA	Solid	8015B NM	26434
890-2346-3	SS03	Total/NA	Solid	8015B NM	26434
890-2346-4	SS04	Total/NA	Solid	8015B NM	26434
890-2346-5	SS05	Total/NA	Solid	8015B NM	26434
890-2346-6	SS06	Total/NA	Solid	8015B NM	26434

QC Association Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

GC Semi VOA (Continued)

Analysis Batch: 26400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-7	SS07	Total/NA	Solid	8015B NM	26434
890-2346-8	SS08	Total/NA	Solid	8015B NM	26434
MB 880-26434/1-A	Method Blank	Total/NA	Solid	8015B NM	26434
LCS 880-26434/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26434
LCSD 880-26434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26434
890-2346-1 MS	SS01	Total/NA	Solid	8015B NM	26434
890-2346-1 MSD	SS01	Total/NA	Solid	8015B NM	26434

Prep Batch: 26434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	8015NM Prep	
890-2346-2	SS02	Total/NA	Solid	8015NM Prep	
890-2346-3	SS03	Total/NA	Solid	8015NM Prep	
890-2346-4	SS04	Total/NA	Solid	8015NM Prep	
890-2346-5	SS05	Total/NA	Solid	8015NM Prep	
890-2346-6	SS06	Total/NA	Solid	8015NM Prep	
890-2346-7	SS07	Total/NA	Solid	8015NM Prep	
890-2346-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-26434/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26434/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2346-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-2346-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Total/NA	Solid	8015 NM	
890-2346-2	SS02	Total/NA	Solid	8015 NM	
890-2346-3	SS03	Total/NA	Solid	8015 NM	
890-2346-4	SS04	Total/NA	Solid	8015 NM	
890-2346-5	SS05	Total/NA	Solid	8015 NM	
890-2346-6	SS06	Total/NA	Solid	8015 NM	
890-2346-7	SS07	Total/NA	Solid	8015 NM	
890-2346-8	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Soluble	Solid	DI Leach	
890-2346-2	SS02	Soluble	Solid	DI Leach	
890-2346-3	SS03	Soluble	Solid	DI Leach	
890-2346-4	SS04	Soluble	Solid	DI Leach	
890-2346-5	SS05	Soluble	Solid	DI Leach	
890-2346-6	SS06	Soluble	Solid	DI Leach	
890-2346-7	SS07	Soluble	Solid	DI Leach	
890-2346-8	SS08	Soluble	Solid	DI Leach	
MB 880-26334/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26334/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26334/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2346-4 MS	SS04	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

HPLC/IC (Continued)

Leach Batch: 26334 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-4 MSD	SS04	Soluble	Solid	DI Leach	

Analysis Batch: 26500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2346-1	SS01	Soluble	Solid	300.0	26334
890-2346-2	SS02	Soluble	Solid	300.0	26334
890-2346-3	SS03	Soluble	Solid	300.0	26334
890-2346-4	SS04	Soluble	Solid	300.0	26334
890-2346-5	SS05	Soluble	Solid	300.0	26334
890-2346-6	SS06	Soluble	Solid	300.0	26334
890-2346-7	SS07	Soluble	Solid	300.0	26334
890-2346-8	SS08	Soluble	Solid	300.0	26334
MB 880-26334/1-A	Method Blank	Soluble	Solid	300.0	26334
LCS 880-26334/2-A	Lab Control Sample	Soluble	Solid	300.0	26334
LCSD 880-26334/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26334
890-2346-4 MS	SS04	Soluble	Solid	300.0	26334
890-2346-4 MSD	SS04	Soluble	Solid	300.0	26334

Lab Chronicle

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS01

Lab Sample ID: 890-2346-1
Matrix: Solid
Date Collected: 05/24/22 11:35
Date Received: 05/25/22 16:13

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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 13:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/27/22 22:39	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		5			26500	05/29/22 19:40	SC	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2346-2
Matrix: Solid
Date Collected: 05/24/22 11:40
Date Received: 05/25/22 16:13

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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 14:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/27/22 23:43	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		5			26500	05/29/22 19:46	SC	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-2346-3
Matrix: Solid
Date Collected: 05/24/22 11:45
Date Received: 05/25/22 16:13

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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 14:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 00:05	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		5			26500	05/29/22 19:53	SC	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-2346-4
Matrix: Solid
Date Collected: 05/24/22 11:50
Date Received: 05/25/22 16:13

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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 15:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS04
Date Collected: 05/24/22 11:50
Date Received: 05/25/22 16:13

Lab Sample ID: 890-2346-4
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			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 00:27	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			26500	05/29/22 19:59	SC	XEN MID

Client Sample ID: SS05
Date Collected: 05/24/22 13:30
Date Received: 05/25/22 16:13

Lab Sample ID: 890-2346-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 15:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 00:49	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			26500	05/29/22 20:18	SC	XEN MID

Client Sample ID: SS06
Date Collected: 05/24/22 13:35
Date Received: 05/25/22 16:13

Lab Sample ID: 890-2346-6
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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 15:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 01:11	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			26500	05/29/22 20:24	SC	XEN MID

Client Sample ID: SS07
Date Collected: 05/24/22 13:40
Date Received: 05/25/22 16:13

Lab Sample ID: 890-2346-7
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			5.04 g	5 mL	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 16:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 01:32	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Client Sample ID: SS07

Lab Sample ID: 890-2346-7

Date Collected: 05/24/22 13:40
Matrix: Solid
Date Received: 05/25/22 16:13

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 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			26500	05/29/22 20:43	SC	XEN MID

Client Sample ID: SS08

Lab Sample ID: 890-2346-8

Date Collected: 05/24/22 13:45
Matrix: Solid
Date Received: 05/25/22 16:13

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	26459	05/27/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26715	06/02/22 16:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26792	06/03/22 09:45	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26574	05/31/22 11:20	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26434	05/27/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26400	05/28/22 01:54	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26334	05/27/22 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			26500	05/29/22 20:50	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

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	T104704400-21-22	06-30-22

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 BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2346-1
SDG: 03E155805

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2346-1	SS01	Solid	05/24/22 11:35	05/25/22 16:13	0.5
890-2346-2	SS02	Solid	05/24/22 11:40	05/25/22 16:13	0.5
890-2346-3	SS03	Solid	05/24/22 11:45	05/25/22 16:13	0.5
890-2346-4	SS04	Solid	05/24/22 11:50	05/25/22 16:13	0.5
890-2346-5	SS05	Solid	05/24/22 13:30	05/25/22 16:13	0.5
890-2346-6	SS06	Solid	05/24/22 13:35	05/25/22 16:13	0.5
890-2346-7	SS07	Solid	05/24/22 13:40	05/25/22 16:13	0.5
890-2346-8	SS08	Solid	05/24/22 13:45	05/25/22 16:13	0.5

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tazomy Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum	Company Name:	XTO
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	337-257-8307	Email:	

Work Order Comments

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

Project Name:	PLU Big Sinks 127H	Turn Around	
Project Number:	03E155805	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Kyle Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.0	
Total Containers:		Corrected Temperature:	5.8	

ANALYSIS REQUEST

Pres. Code / Parameters: BTEX, TPH, Chlorides

890-2346 Chain of Custody

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
SS01	S	5/24/22	1135	0.5'			Incident ID:
SS02			1140				nAPP2210143304
SS03			1145				
SS04			1150				AFE DD.2020.05348
SS05			1330				, CAP. DRL.01
SS06			1335				
SS07			1340				
SS08			1345				

KD

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5-25-22 1013	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2346-1
SDG Number: 03E155805

Login Number: 2346
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2346-1
SDG Number: 03E155805

Login Number: 2346
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 05/27/22 10:54 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2402-1
Laboratory Sample Delivery Group: 03E1558055
Client Project/Site: PLU BIG SINKS 127H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
6/17/2022 10:29:13 AM

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

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

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

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Laboratory Job ID: 890-2402-1
SDG: 03E1558055

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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.
¤	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 BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Job ID: 890-2402-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2402-1

Receipt
The samples were received on 6/9/2022 4:39 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 4.2°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-27537 and analytical batch 880-27554 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-2396-A-2-F MS). 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: The laboratory control sample (LCS) associated with preparation batch 880-27379 and analytical batch 880-27351 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 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-27379/2-A) and (LCSD 880-27379/3-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 BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH01

Lab Sample ID: 890-2402-1
Matrix: Solid
Date Collected: 06/09/22 10:20
Date Received: 06/09/22 16:39
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/14/22 15:38	06/16/22 01:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/14/22 15:38	06/16/22 01:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/14/22 15:38	06/16/22 01:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/14/22 15:38	06/16/22 01:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/14/22 15:38	06/16/22 01:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/14/22 15:38	06/16/22 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/16/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 15:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 15:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*06/13/22 09:28*	*06/13/22 15:29*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*06/13/22 09:28*	*06/13/22 15:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**188**		4.99		mg/Kg			06/17/22 06:17	1

Client Sample ID: PH01

Lab Sample ID: 890-2402-2
Matrix: Solid
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 16:39
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/14/22 15:38	06/16/22 01:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/14/22 15:38	06/16/22 01:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/14/22 15:38	06/16/22 01:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/14/22 15:38	06/16/22 01:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/14/22 15:38	06/16/22 01:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/14/22 15:38	06/16/22 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:30*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH01

Date Collected: 06/09/22 10:30
Date Received: 06/09/22 16:39
Sample Depth: 4

Lab Sample ID: 890-2402-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/16/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*06/13/22 09:28*	*06/13/22 15:51*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*06/13/22 09:28*	*06/13/22 15:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		5.05		mg/Kg			06/17/22 06:25	1

Client Sample ID: PH02

Date Collected: 06/09/22 10:55
Date Received: 06/09/22 16:39
Sample Depth: 2

Lab Sample ID: 890-2402-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 01:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 01:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 01:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/14/22 15:38	06/16/22 01:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 01:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/14/22 15:38	06/16/22 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:51*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/14/22 15:38*	*06/16/22 01:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/16/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/22 09:33	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH02

Date Collected: 06/09/22 10:55
Date Received: 06/09/22 16:39
Sample Depth: 2

Lab Sample ID: 890-2402-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 16:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		06/13/22 09:28	06/13/22 16:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/13/22 09:28	06/13/22 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/13/22 09:28*	*06/13/22 16:14*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/13/22 09:28*	*06/13/22 16:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		4.97		mg/Kg			06/17/22 06:33	1

Client Sample ID: PH03

Date Collected: 06/09/22 11:45
Date Received: 06/09/22 16:39
Sample Depth: 2

Lab Sample ID: 890-2402-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 15:38	06/16/22 02:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 15:38	06/16/22 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*06/14/22 15:38*	*06/16/22 02:12*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*06/14/22 15:38*	*06/16/22 02:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/16/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 16:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 16:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/13/22 09:28*	*06/13/22 16:35*	*1*
o-Terphenyl	*123*		*70 - 130*	*06/13/22 09:28*	*06/13/22 16:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH03

Date Collected: 06/09/22 11:45
Date Received: 06/09/22 16:39
Sample Depth: 2

Lab Sample ID: 890-2402-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.3		4.98		mg/Kg			06/17/22 06:57	1

Client Sample ID: PH04

Date Collected: 06/09/22 12:00
Date Received: 06/09/22 16:39
Sample Depth: 2

Lab Sample ID: 890-2402-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/14/22 15:38	06/16/22 02:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/16/22 02:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/14/22 15:38	06/16/22 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/14/22 15:38*	*06/16/22 02:32*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/14/22 15:38*	*06/16/22 02:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/16/22 10:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/22 09:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		06/13/22 09:28	06/13/22 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/13/22 09:28*	*06/13/22 18:09*	*1*
o-Terphenyl	*117*		*70 - 130*	*06/13/22 09:28*	*06/13/22 18:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.00		mg/Kg			06/17/22 07:04	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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)
890-2396-A-2-F MS	Matrix Spike	53 S1-	112
890-2396-A-2-G MSD	Matrix Spike Duplicate	101	95
890-2402-1	PH01	89	107
890-2402-2	PH01	78	93
890-2402-3	PH02	94	94
890-2402-4	PH03	115	90
890-2402-5	PH04	93	93
LCS 880-27537/1-A	Lab Control Sample	101	99
LCSD 880-27537/2-A	Lab Control Sample Dup	97	99
MB 880-27184/5-A	Method Blank	91	108
MB 880-27537/5-A	Method Blank	90	110

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)
880-15766-A-1-B MS	Matrix Spike	110	106
880-15766-A-1-C MSD	Matrix Spike Duplicate	111	109
890-2402-1	PH01	122	140 S1+
890-2402-2	PH01	117	135 S1+
890-2402-3	PH02	105	123
890-2402-4	PH03	109	123
890-2402-5	PH04	98	117
LCS 880-27379/2-A	Lab Control Sample	140 S1+	151 S1+
LCSD 880-27379/3-A	Lab Control Sample Dup	126	132 S1+
MB 880-27379/1-A	Method Blank	100	118

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27184/5-A
Matrix: Solid
Analysis Batch: 27554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27184

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 12:25	06/15/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 12:25	06/15/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 12:25	06/15/22 11:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/09/22 12:25	06/15/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 12:25	06/15/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 12:25	06/15/22 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/09/22 12:25*	*06/15/22 11:40*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*06/09/22 12:25*	*06/15/22 11:40*	*1*

Lab Sample ID: MB 880-27537/5-A
Matrix: Solid
Analysis Batch: 27554

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27537

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/15/22 23:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/15/22 23:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/15/22 23:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 15:38	06/15/22 23:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 15:38	06/15/22 23:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 15:38	06/15/22 23:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/14/22 15:38*	*06/15/22 23:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/14/22 15:38*	*06/15/22 23:04*	*1*

Lab Sample ID: LCS 880-27537/1-A
Matrix: Solid
Analysis Batch: 27554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27537

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08797		mg/Kg		88	70 - 130		
Toluene			0.100	0.09739		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09008		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1795		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09878		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-27537/2-A
Matrix: Solid
Analysis Batch: 27554

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27537

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08628		mg/Kg		86	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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

Lab Sample ID: LCSD 880-27537/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27554 — **Prep Batch: 27537**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09301		mg/Kg		93	70 - 130	5	35
Ethylbenzene			0.100	0.08378		mg/Kg		84	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1655		mg/Kg		83	70 - 130	8	35
o-Xylene			0.100	0.09112		mg/Kg		91	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2396-A-2-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27554 — **Prep Batch: 27537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.03703	F1	mg/Kg		37	70 - 130
Toluene	<0.00199	U F2 F1	0.0996	0.02686	F1	mg/Kg		27	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.02006	F1	mg/Kg		20	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.03639	F1	mg/Kg		17	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.02095	F1	mg/Kg		21	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*53*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 890-2396-A-2-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27554 — **Prep Batch: 27537**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.04066	F1	mg/Kg		40	70 - 130	9	35
Toluene	<0.00199	U F2 F1	0.101	0.04582	F2 F1	mg/Kg		45	70 - 130	52	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.04145	F2 F1	mg/Kg		41	70 - 130	70	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.07699	F2 F1	mg/Kg		37	70 - 130	72	35
o-Xylene	<0.00199	U F2 F1	0.101	0.04481	F2 F1	mg/Kg		44	70 - 130	73	35

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

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

Lab Sample ID: MB 880-27379/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27351 — **Prep Batch: 27379**

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		06/13/22 09:28	06/13/22 11:29	1

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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

Lab Sample ID: MB 880-27379/1-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 27379

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		06/13/22 09:28	06/13/22 11:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/13/22 09:28	06/13/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/13/22 09:28*	*06/13/22 11:29*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/13/22 09:28*	*06/13/22 11:29*	*1*

Lab Sample ID: LCS 880-27379/2-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 27379

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1128		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1452	*+	mg/Kg		145	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*151*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-27379/3-A
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 27379

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1151		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1407	*+	mg/Kg		141	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: 880-15766-A-1-B MS
Matrix: Solid
Analysis Batch: 27351

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 27379

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	1254		mg/Kg		126	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	1208		mg/Kg		121	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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

Lab Sample ID: 880-15766-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 27351 — **Prep Batch: 27379**

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	1255		mg/Kg		126	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	1273		mg/Kg		127	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27517/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27729

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/17/22 05:22	1

Lab Sample ID: LCS 880-27517/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27729

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

Lab Sample ID: LCSD 880-27517/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27729

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.3		mg/Kg		95	90 - 110	2	20

Lab Sample ID: 890-2401-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	19.7		248	247.6		mg/Kg		92	90 - 110		

Lab Sample ID: 890-2401-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 27729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.7		248	251.2		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

GC VOA

Prep Batch: 27184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27184/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 27537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	5035	
890-2402-2	PH01	Total/NA	Solid	5035	
890-2402-3	PH02	Total/NA	Solid	5035	
890-2402-4	PH03	Total/NA	Solid	5035	
890-2402-5	PH04	Total/NA	Solid	5035	
MB 880-27537/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27537/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27537/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2396-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2396-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 27554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	8021B	27537
890-2402-2	PH01	Total/NA	Solid	8021B	27537
890-2402-3	PH02	Total/NA	Solid	8021B	27537
890-2402-4	PH03	Total/NA	Solid	8021B	27537
890-2402-5	PH04	Total/NA	Solid	8021B	27537
MB 880-27184/5-A	Method Blank	Total/NA	Solid	8021B	27184
MB 880-27537/5-A	Method Blank	Total/NA	Solid	8021B	27537
LCS 880-27537/1-A	Lab Control Sample	Total/NA	Solid	8021B	27537
LCSD 880-27537/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27537
890-2396-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	27537
890-2396-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27537

Analysis Batch: 27690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	Total BTEX	
890-2402-2	PH01	Total/NA	Solid	Total BTEX	
890-2402-3	PH02	Total/NA	Solid	Total BTEX	
890-2402-4	PH03	Total/NA	Solid	Total BTEX	
890-2402-5	PH04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	8015B NM	27379
890-2402-2	PH01	Total/NA	Solid	8015B NM	27379
890-2402-3	PH02	Total/NA	Solid	8015B NM	27379
890-2402-4	PH03	Total/NA	Solid	8015B NM	27379
890-2402-5	PH04	Total/NA	Solid	8015B NM	27379
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015B NM	27379
LCS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27379
LCSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27379
880-15766-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27379
880-15766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27379

QC Association Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

GC Semi VOA

Prep Batch: 27379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	8015NM Prep	
890-2402-2	PH01	Total/NA	Solid	8015NM Prep	
890-2402-3	PH02	Total/NA	Solid	8015NM Prep	
890-2402-4	PH03	Total/NA	Solid	8015NM Prep	
890-2402-5	PH04	Total/NA	Solid	8015NM Prep	
MB 880-27379/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27379/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27379/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15766-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Total/NA	Solid	8015 NM	
890-2402-2	PH01	Total/NA	Solid	8015 NM	
890-2402-3	PH02	Total/NA	Solid	8015 NM	
890-2402-4	PH03	Total/NA	Solid	8015 NM	
890-2402-5	PH04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Soluble	Solid	DI Leach	
890-2402-2	PH01	Soluble	Solid	DI Leach	
890-2402-3	PH02	Soluble	Solid	DI Leach	
890-2402-4	PH03	Soluble	Solid	DI Leach	
890-2402-5	PH04	Soluble	Solid	DI Leach	
MB 880-27517/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27517/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27517/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2401-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2401-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 27729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2402-1	PH01	Soluble	Solid	300.0	27517
890-2402-2	PH01	Soluble	Solid	300.0	27517
890-2402-3	PH02	Soluble	Solid	300.0	27517
890-2402-4	PH03	Soluble	Solid	300.0	27517
890-2402-5	PH04	Soluble	Solid	300.0	27517
MB 880-27517/1-A	Method Blank	Soluble	Solid	300.0	27517
LCS 880-27517/2-A	Lab Control Sample	Soluble	Solid	300.0	27517
LCSD 880-27517/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27517
890-2401-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	27517
890-2401-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27517

Lab Chronicle

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH01
Date Collected: 06/09/22 10:20
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-1
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	27537	06/14/22 15:38	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27554	06/16/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27690	06/16/22 10:02	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27479	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 15:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 06:17	CH	XEN MID

Client Sample ID: PH01
Date Collected: 06/09/22 10:30
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27537	06/14/22 15:38	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27554	06/16/22 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27690	06/16/22 10:02	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27479	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 15:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 06:25	CH	XEN MID

Client Sample ID: PH02
Date Collected: 06/09/22 10:55
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27537	06/14/22 15:38	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27554	06/16/22 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27690	06/16/22 10:02	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27479	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 16:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 06:33	CH	XEN MID

Client Sample ID: PH03
Date Collected: 06/09/22 11:45
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27537	06/14/22 15:38	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27554	06/16/22 02:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27690	06/16/22 10:02	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Client Sample ID: PH03

Date Collected: 06/09/22 11:45
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-4

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			27479	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 06:57	CH	XEN MID

Client Sample ID: PH04

Date Collected: 06/09/22 12:00
Date Received: 06/09/22 16:39

Lab Sample ID: 890-2402-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27537	06/14/22 15:38	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27554	06/16/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27690	06/16/22 10:02	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27479	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27379	06/13/22 09:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/13/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27517	06/14/22 13:39	SC	XEN MID
Soluble	Analysis	300.0		1			27729	06/17/22 07:04	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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	T104704400-21-22	06-30-22

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 BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU BIG SINKS 127H

Job ID: 890-2402-1
SDG: 03E1558055

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2402-1	PH01	Solid	06/09/22 10:20	06/09/22 16:39	2
890-2402-2	PH01	Solid	06/09/22 10:30	06/09/22 16:39	4
890-2402-3	PH02	Solid	06/09/22 10:55	06/09/22 16:39	2
890-2402-4	PH03	Solid	06/09/22 11:45	06/09/22 16:39	2
890-2402-5	PH04	Solid	06/09/22 12:00	06/09/22 16:39	2

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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: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum LLC.	Company Name:	XTO Energy, Inc.
Address:		Address:	3104 E. Green Street
City, State ZIP:		City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@ensolum.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 Big Sinks 127H	**Turn Around**	
Project Number:	03E1558055	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM_005
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.4
Total Containers:		Corrected Temperature:	4.2

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
PH01	s	06.09.22	1020	2'	G	1		x	x	x	Incident ID:nAPP2210143304
PH01	s	06.09.22	1030	4'	G	1		x	x	x	
PH02	s	06.09.22	1055	2'	G	1		x	x	x	Cost Center:
PH03	s	06.09.22	1145	2'	G	1		x	x	x	
PH04	s	06.09.22	1200	2'	G	1		x	x	x	AFE:
											DD.2020.05398.CAP.DRL.01

890-2402 Chain of Custody

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.9.22 1637	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2402-1
SDG Number: 03E1558055

Login Number: 2402
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2402-1
SDG Number: 03E1558055

Login Number: 2402
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/13/22 09:42 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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2462-1
Laboratory Sample Delivery Group: Eddy Co NM
Client Project/Site: PLU 127H

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
7/7/2022 11:08:51 AM

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

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

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

Client: Ensolum
Project/Site: PLU 127H

Laboratory Job ID: 890-2462-1
SDG: Eddy Co NM

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Job ID: 890-2462-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2462-1

Receipt
The samples were received on 6/27/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC):
FS32 @0.5 6-23-22 1040, FS40 @0.5 6-23-22 1308, FS39 @0.5 6-23-22 1140, FS37 @0.5 6-23-22 1130. Client states to add to job.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: FS50 (890-2462-39). 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 880-28678 and analytical batch 880-28710 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28545 and analytical batch 880-28968 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28660 and analytical batch 880-28983 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-28506/2-A). 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: FS02 (890-2462-44), FS07 (890-2462-45) and FS34 (890-2462-46). 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: (LCSD 880-28577/3-A). 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: FS05 (890-2462-49) and FS32 (890-2462-50). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-28506 and analytical batch 880-28522 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-28506 and analytical batch 880-28522 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Job ID: 890-2462-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28577 and analytical batch 880-28522 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS11 (890-2462-1). 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: FS12A (890-2462-3) and FS10 (890-2462-4). 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: FS26 (890-2462-6) and FS23 (890-2462-7). 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: FS24 (890-2462-9). 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: FS16 (890-2462-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-28504 and analytical batch 880-28513 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28457 and analytical batch 880-28868 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28456 and analytical batch 880-28863 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-28556 and analytical batch 880-28884 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS11

Lab Sample ID: 890-2462-1
Matrix: Solid
Date Collected: 06/21/22 11:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/28/22 13:09	07/03/22 21:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/28/22 13:09	07/03/22 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:02*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 12:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/28/22 08:44*	*06/28/22 12:49*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 12:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**	**F1**	4.98		mg/Kg			07/02/22 20:01	1

Client Sample ID: FS09A

Lab Sample ID: 890-2462-2
Matrix: Solid
Date Collected: 06/21/22 15:45
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/28/22 13:09	07/03/22 21:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/28/22 13:09	07/03/22 21:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/28/22 13:09	07/03/22 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:28*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS09A

Lab Sample ID: 890-2462-2
Matrix: Solid
Date Collected: 06/21/22 15:45
Date Received: 06/27/22 08:00
Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 13:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 13:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*99*		*70 - 130*	*06/28/22 08:44*	*06/28/22 13:53*	*1*
o-Terphenyl	*110*		*70 - 130*	*06/28/22 08:44*	*06/28/22 13:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.3**		4.95		mg/Kg			07/02/22 20:24	1

Client Sample ID: FS12A

Lab Sample ID: 890-2462-3
Matrix: Solid
Date Collected: 06/21/22 15:50
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/28/22 13:09	07/03/22 21:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/28/22 13:09	07/03/22 21:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/28/22 13:09	07/03/22 21:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/28/22 13:09	07/03/22 21:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/28/22 13:09	07/03/22 21:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/28/22 13:09	07/03/22 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/28/22 13:09*	*07/03/22 21:54*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS12A

Lab Sample ID: 890-2462-3
Matrix: Solid
Date Collected: 06/21/22 15:50
Date Received: 06/27/22 08:00
Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 14:14*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.2**		4.96		mg/Kg			07/02/22 20:32	1

Client Sample ID: FS10

Lab Sample ID: 890-2462-4
Matrix: Solid
Date Collected: 06/21/22 11:00
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 22:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 22:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 22:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/28/22 13:09	07/03/22 22:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 22:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/28/22 13:09	07/03/22 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/28/22 13:09*	*07/03/22 22:21*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/28/22 13:09*	*07/03/22 22:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		06/28/22 08:44	06/28/22 14:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		06/28/22 08:44	06/28/22 14:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:44	06/28/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*06/28/22 08:44*	*06/28/22 14:36*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 14:36*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS10

Lab Sample ID: 890-2462-4
Matrix: Solid
Date Collected: 06/21/22 11:00
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.2		5.04		mg/Kg			07/02/22 20:40	1

Client Sample ID: FS22

Lab Sample ID: 890-2462-5
Matrix: Solid
Date Collected: 06/21/22 12:50
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 15:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 15:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/22 13:16	07/05/22 15:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/22 13:16	07/05/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/05/22 13:16*	*07/05/22 15:18*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/05/22 13:16*	*07/05/22 15:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 14:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*06/28/22 08:44*	*06/28/22 14:57*	*1*
o-Terphenyl	*121*		*70 - 130*	*06/28/22 08:44*	*06/28/22 14:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		4.99		mg/Kg			07/02/22 20:48	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS26

Lab Sample ID: 890-2462-6
Matrix: Solid
Date Collected: 06/21/22 13:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 15:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 15:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 15:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/22 13:16	07/05/22 15:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 15:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/22 13:16	07/05/22 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/05/22 13:16*	*07/05/22 15:44*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/05/22 13:16*	*07/05/22 15:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 15:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 15:19	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*06/28/22 08:44*	*06/28/22 15:19*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 15:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**209**		4.98		mg/Kg			07/02/22 21:12	1

Client Sample ID: FS23

Lab Sample ID: 890-2462-7
Matrix: Solid
Date Collected: 06/21/22 13:00
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 16:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 16:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 16:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/05/22 13:16	07/05/22 16:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:16	07/05/22 16:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/05/22 13:16	07/05/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/05/22 13:16*	*07/05/22 16:10*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS23

Lab Sample ID: 890-2462-7
Matrix: Solid
Date Collected: 06/21/22 13:00
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/05/22 13:16*	*07/05/22 16:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 15:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 15:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*123*		*70 - 130*	*06/28/22 08:44*	*06/28/22 15:40*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 15:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**645**		4.97		mg/Kg			07/02/22 21:19	1

Client Sample ID: FS21

Lab Sample ID: 890-2462-8
Matrix: Solid
Date Collected: 06/21/22 12:45
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 16:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 16:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 16:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/05/22 13:16	07/05/22 16:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 16:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/05/22 13:16	07/05/22 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/05/22 13:16*	*07/05/22 16:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/05/22 13:16*	*07/05/22 16:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS21

Lab Sample ID: 890-2462-8
Matrix: Solid
Date Collected: 06/21/22 12:45
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		06/28/22 08:44	06/28/22 16:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		06/28/22 08:44	06/28/22 16:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:44	06/28/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/28/22 08:44*	*06/28/22 16:01*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 08:44*	*06/28/22 16:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**63.4**		4.95		mg/Kg			07/02/22 21:27	1

Client Sample ID: FS24

Lab Sample ID: 890-2462-9
Matrix: Solid
Date Collected: 06/21/22 13:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/05/22 13:16	07/05/22 17:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/05/22 13:16	07/05/22 17:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/05/22 13:16	07/05/22 17:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/05/22 13:16	07/05/22 17:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/05/22 13:16	07/05/22 17:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/05/22 13:16	07/05/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 16:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 16:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*06/28/22 08:44*	*06/28/22 16:23*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 16:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS24

Lab Sample ID: 890-2462-9
Matrix: Solid
Date Collected: 06/21/22 13:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		5.00		mg/Kg			07/02/22 21:35	1

Client Sample ID: FS13A

Lab Sample ID: 890-2462-10
Matrix: Solid
Date Collected: 06/21/22 16:00
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 17:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 17:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 17:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/05/22 13:16	07/05/22 17:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 17:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/05/22 13:16	07/05/22 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:29*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 16:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*06/28/22 08:44*	*06/28/22 16:44*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 08:44*	*06/28/22 16:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		4.99		mg/Kg			07/02/22 21:43	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS06

Lab Sample ID: 890-2462-11
Matrix: Solid
Date Collected: 06/21/22 15:10
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:16	07/05/22 17:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:16	07/05/22 17:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:16	07/05/22 17:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/05/22 13:16	07/05/22 17:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:16	07/05/22 17:55	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/05/22 13:16	07/05/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/05/22 13:16*	*07/05/22 17:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:11*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**313**	**F1**	5.05		mg/Kg			07/02/22 21:51	1

Client Sample ID: FS25

Lab Sample ID: 890-2462-12
Matrix: Solid
Date Collected: 06/21/22 13:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 18:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 18:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 18:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/22 13:16	07/05/22 18:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 18:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/22 13:16	07/05/22 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/05/22 13:16*	*07/05/22 18:22*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS25

Lab Sample ID: 890-2462-12
Matrix: Solid
Date Collected: 06/21/22 13:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/05/22 13:16*	*07/05/22 18:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.9**		50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:33	1
Diesel Range Organics (Over C10-C28)	**85.9**	***-**	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:33*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**790**		4.99		mg/Kg			07/02/22 22:14	1

Client Sample ID: FS08

Lab Sample ID: 890-2462-13
Matrix: Solid
Date Collected: 06/21/22 15:15
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 18:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 18:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 18:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/05/22 13:16	07/05/22 18:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/05/22 13:16	07/05/22 18:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/05/22 13:16	07/05/22 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/05/22 13:16*	*07/05/22 18:48*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*07/05/22 13:16*	*07/05/22 18:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS08

Lab Sample ID: 890-2462-13
Matrix: Solid
Date Collected: 06/21/22 15:15
Date Received: 06/27/22 08:00
Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:54*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/28/22 08:44*	*06/28/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.04		mg/Kg			07/02/22 22:22	1

Client Sample ID: FS17

Lab Sample ID: 890-2462-14
Matrix: Solid
Date Collected: 06/21/22 09:55
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 19:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 19:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 19:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/22 13:16	07/05/22 19:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:16	07/05/22 19:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/22 13:16	07/05/22 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*07/05/22 13:16*	*07/05/22 19:14*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/05/22 13:16*	*07/05/22 19:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/28/22 08:44*	*06/28/22 19:16*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/28/22 08:44*	*06/28/22 19:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS17

Lab Sample ID: 890-2462-14
Matrix: Solid
Date Collected: 06/21/22 09:55
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.9		5.05		mg/Kg			07/02/22 22:46	1

Client Sample ID: FS16

Lab Sample ID: 890-2462-15
Matrix: Solid
Date Collected: 06/21/22 10:00
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:21	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:21	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		06/29/22 12:27	07/05/22 15:21	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:21	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		06/29/22 12:27	07/05/22 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/29/22 12:27*	*07/05/22 15:21*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/29/22 12:27*	*07/05/22 15:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/28/22 08:44*	*06/28/22 19:37*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*06/28/22 08:44*	*06/28/22 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.03		mg/Kg			07/02/22 22:54	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS15

Lab Sample ID: 890-2462-16
Matrix: Solid
Date Collected: 06/21/22 10:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 15:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 15:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/29/22 12:27*	*07/05/22 15:41*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 12:27*	*07/05/22 15:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*06/28/22 08:44*	*06/28/22 19:59*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/28/22 08:44*	*06/28/22 19:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**672**		4.99		mg/Kg			07/02/22 23:01	1

Client Sample ID: FS18

Lab Sample ID: 890-2462-17
Matrix: Solid
Date Collected: 06/21/22 10:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/22 12:27	07/05/22 16:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/22 12:27	07/05/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:02*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS18

Lab Sample ID: 890-2462-17
Matrix: Solid
Date Collected: 06/21/22 10:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 20:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		06/28/22 08:44	06/28/22 20:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*06/28/22 08:44*	*06/28/22 20:21*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/28/22 08:44*	*06/28/22 20:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		5.00		mg/Kg			07/02/22 23:09	1

Client Sample ID: FS19

Lab Sample ID: 890-2462-18
Matrix: Solid
Date Collected: 06/21/22 10:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 16:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 16:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 16:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 16:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 16:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:22*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS19

Lab Sample ID: 890-2462-18
Matrix: Solid
Date Collected: 06/21/22 10:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 20:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 20:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/28/22 08:44*	*06/28/22 20:42*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 08:44*	*06/28/22 20:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.4**		4.99		mg/Kg			07/02/22 23:17	1

Client Sample ID: FS14

Lab Sample ID: 890-2462-19
Matrix: Solid
Date Collected: 06/21/22 10:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 16:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 16:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/29/22 12:27*	*07/05/22 16:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.5**		50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:44	06/28/22 21:04	1
Diesel Range Organics (Over C10-C28)	**74.5**	***-**	50.0		mg/Kg		06/28/22 08:44	06/28/22 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/28/22 08:44*	*06/28/22 21:04*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/28/22 08:44*	*06/28/22 21:04*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS14

Lab Sample ID: 890-2462-19
Matrix: Solid
Date Collected: 06/21/22 10:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	459		5.03		mg/Kg			07/02/22 23:25	1

Client Sample ID: FS20

Lab Sample ID: 890-2462-20
Matrix: Solid
Date Collected: 06/21/22 10:25
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 17:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 17:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 17:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 17:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 17:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:03*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:44	06/28/22 21:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		06/28/22 08:44	06/28/22 21:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:44	06/28/22 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/28/22 08:44*	*06/28/22 21:25*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/28/22 08:44*	*06/28/22 21:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.04		mg/Kg			07/02/22 23:33	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS24

Lab Sample ID: 890-2462-21
Matrix: Solid
Date Collected: 06/23/22 10:00
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 17:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 17:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 17:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 17:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 17:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:23*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 12:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/28/22 08:47*	*06/28/22 12:49*	*1*
o-Terphenyl	*96*		*70 - 130*	*06/28/22 08:47*	*06/28/22 12:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**215**		5.00		mg/Kg			07/03/22 09:46	1

Client Sample ID: FS03

Lab Sample ID: 890-2462-22
Matrix: Solid
Date Collected: 06/23/22 09:10
Date Received: 06/27/22 08:00
Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/29/22 12:27	07/05/22 17:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/29/22 12:27	07/05/22 17:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/29/22 12:27	07/05/22 17:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/29/22 12:27	07/05/22 17:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/29/22 12:27	07/05/22 17:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/29/22 12:27	07/05/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:44*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS03

Lab Sample ID: 890-2462-22
Matrix: Solid
Date Collected: 06/23/22 09:10
Date Received: 06/27/22 08:00
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 12:27*	*07/05/22 17:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/29/22 07:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/29/22 07:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/29/22 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*98*		*70 - 130*	*06/28/22 08:47*	*06/29/22 07:44*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/28/22 08:47*	*06/29/22 07:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**688**		4.99	mg/Kg			07/03/22 10:10	1

Client Sample ID: SW02

Lab Sample ID: 890-2462-23
Matrix: Solid
Date Collected: 06/23/22 13:45
Date Received: 06/27/22 08:00
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 18:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 18:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 18:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/29/22 12:27	07/05/22 18:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 18:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/29/22 12:27	07/05/22 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/29/22 12:27*	*07/05/22 18:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/29/22 12:27*	*07/05/22 18:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: SW02

Lab Sample ID: 890-2462-23
Matrix: Solid
Date Collected: 06/23/22 13:45
Date Received: 06/27/22 08:00
Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/29/22 08:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/29/22 08:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/29/22 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/28/22 08:47*	*06/29/22 08:05*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/28/22 08:47*	*06/29/22 08:05*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1970**		24.9		mg/Kg			07/03/22 10:18	5

Client Sample ID: FS31

Lab Sample ID: 890-2462-24
Matrix: Solid
Date Collected: 06/23/22 10:35
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 18:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 18:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 18:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 18:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 18:25	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/29/22 12:27*	*07/05/22 18:25*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/29/22 12:27*	*07/05/22 18:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**277**		49.8		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 14:36	1
Diesel Range Organics (Over C10-C28)	**150**		49.8		mg/Kg		06/28/22 08:47	06/28/22 14:36	1
Oil Range Organics (Over C28-C36)	**127**		49.8		mg/Kg		06/28/22 08:47	06/28/22 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/28/22 08:47*	*06/28/22 14:36*	*1*
o-Terphenyl	*113*		*70 - 130*	*06/28/22 08:47*	*06/28/22 14:36*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS31

Lab Sample ID: 890-2462-24
Matrix: Solid
Date Collected: 06/23/22 10:35
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		5.00		mg/Kg			07/03/22 10:26	1

Client Sample ID: FS30

Lab Sample ID: 890-2462-25
Matrix: Solid
Date Collected: 06/23/22 10:30
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 20:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:15*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 14:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 14:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/28/22 08:47*	*06/28/22 14:57*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/28/22 08:47*	*06/28/22 14:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.95		mg/Kg			07/03/22 10:33	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS33

Lab Sample ID: 890-2462-26
Matrix: Solid
Date Collected: 06/23/22 11:00
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 20:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/29/22 12:27	07/05/22 20:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/29/22 12:27	07/05/22 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:36*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 15:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 15:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/28/22 08:47*	*06/28/22 15:19*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/28/22 08:47*	*06/28/22 15:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.4**		5.01		mg/Kg			07/03/22 10:57	1

Client Sample ID: FS41

Lab Sample ID: 890-2462-27
Matrix: Solid
Date Collected: 06/23/22 13:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 20:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 20:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 20:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 20:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 20:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS41

Lab Sample ID: 890-2462-27
Matrix: Solid
Date Collected: 06/23/22 13:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/29/22 12:27*	*07/05/22 20:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/28/22 15:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/28/22 15:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/28/22 08:47	06/28/22 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*95*		*70 - 130*	*06/28/22 08:47*	*06/28/22 15:40*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/28/22 08:47*	*06/28/22 15:40*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**453**		4.98	mg/Kg			07/03/22 11:05	1

Client Sample ID: FS36

Lab Sample ID: 890-2462-28
Matrix: Solid
Date Collected: 06/23/22 11:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 21:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 21:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 21:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/29/22 12:27	07/05/22 21:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 21:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/29/22 12:27	07/05/22 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:17*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS36

Lab Sample ID: 890-2462-28
Matrix: Solid
Date Collected: 06/23/22 11:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 16:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 16:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:01*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:01*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.4**		5.00		mg/Kg			07/03/22 11:13	1

Client Sample ID: FS23

Lab Sample ID: 890-2462-29
Matrix: Solid
Date Collected: 06/23/22 09:30
Date Received: 06/27/22 08:00
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 21:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 12:27	07/05/22 21:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/22 12:27	07/05/22 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:37*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 16:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 16:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:23*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS23

Lab Sample ID: 890-2462-29
Matrix: Solid
Date Collected: 06/23/22 09:30
Date Received: 06/27/22 08:00
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		4.95		mg/Kg			07/03/22 11:20	1

Client Sample ID: FS28

Lab Sample ID: 890-2462-30
Matrix: Solid
Date Collected: 06/23/22 09:25
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 21:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 21:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 21:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 21:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 21:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:58*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/29/22 12:27*	*07/05/22 21:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 16:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:44*	*1*
o-Terphenyl	*95*		*70 - 130*	*06/28/22 08:47*	*06/28/22 16:44*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8		4.97		mg/Kg			07/03/22 11:28	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS49

Lab Sample ID: 890-2462-31
Matrix: Solid
Date Collected: 06/23/22 15:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 22:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 22:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 22:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 22:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 12:27	07/05/22 22:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 12:27	07/05/22 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:18*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 18:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:11*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.05**	**F1**	4.99		mg/Kg			07/03/22 11:36	1

Client Sample ID: FS44

Lab Sample ID: 890-2462-32
Matrix: Solid
Date Collected: 06/23/22 14:45
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/29/22 12:27	07/05/22 22:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/29/22 12:27	07/05/22 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS44

Lab Sample ID: 890-2462-32
Matrix: Solid
Date Collected: 06/23/22 14:45
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 18:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*102*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:33*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		4.95		mg/Kg			07/03/22 12:00	1

Client Sample ID: FS46

Lab Sample ID: 890-2462-33
Matrix: Solid
Date Collected: 06/23/22 10:50
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 22:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 22:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/29/22 12:27*	*07/05/22 22:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS46

Lab Sample ID: 890-2462-33
Matrix: Solid
Date Collected: 06/23/22 10:50
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 18:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 18:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 08:47	06/28/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:54*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/28/22 08:47*	*06/28/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.4**		5.00		mg/Kg			07/03/22 12:08	1

Client Sample ID: FS48

Lab Sample ID: 890-2462-34
Matrix: Solid
Date Collected: 06/23/22 15:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 23:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 23:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 23:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 23:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/29/22 12:27	07/05/22 23:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/29/22 12:27	07/05/22 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*06/29/22 12:27*	*07/05/22 23:20*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/29/22 12:27*	*07/05/22 23:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:16*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS48

Lab Sample ID: 890-2462-34
Matrix: Solid
Date Collected: 06/23/22 15:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	564		5.00		mg/Kg			07/03/22 12:31	1

Client Sample ID: FS43

Lab Sample ID: 890-2462-35
Matrix: Solid
Date Collected: 06/23/22 14:35
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 07:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 07:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 07:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 07:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 07:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:01*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:37*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		5.00		mg/Kg			07/03/22 12:39	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS45

Lab Sample ID: 890-2462-36
Matrix: Solid
Date Collected: 06/23/22 14:50
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/06/22 08:22	07/07/22 07:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/06/22 08:22	07/07/22 07:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/06/22 08:22	07/07/22 07:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/06/22 08:22	07/07/22 07:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/06/22 08:22	07/07/22 07:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/06/22 08:22	07/07/22 07:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:21*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:21*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 19:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 19:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:59*	*1*
o-Terphenyl	*108*		*70 - 130*	*06/28/22 08:47*	*06/28/22 19:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1080**		5.04		mg/Kg			07/03/22 12:47	1

Client Sample ID: FS47

Lab Sample ID: 890-2462-37
Matrix: Solid
Date Collected: 06/23/22 15:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/06/22 08:22	07/07/22 07:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/06/22 08:22	07/07/22 07:41	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/06/22 08:22	07/07/22 07:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/06/22 08:22	07/07/22 07:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/06/22 08:22	07/07/22 07:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/06/22 08:22	07/07/22 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:41*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS47

Lab Sample ID: 890-2462-37
Matrix: Solid
Date Collected: 06/23/22 15:05
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/06/22 08:22*	*07/07/22 07:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:21	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*83*		*70 - 130*	*06/28/22 08:47*	*06/28/22 20:21*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/28/22 08:47*	*06/28/22 20:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		5.05		mg/Kg			07/03/22 12:55	1

Client Sample ID: FS42

Lab Sample ID: 890-2462-38
Matrix: Solid
Date Collected: 06/23/22 14:30
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 08:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 08:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 08:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 08:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 08:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 08:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/06/22 08:22*	*07/07/22 08:02*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/06/22 08:22*	*07/07/22 08:02*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS42

Lab Sample ID: 890-2462-38
Matrix: Solid
Date Collected: 06/23/22 14:30
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/28/22 08:47*	*06/28/22 20:42*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/28/22 08:47*	*06/28/22 20:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**475**		4.98		mg/Kg			07/03/22 13:03	1

Client Sample ID: FS50

Lab Sample ID: 890-2462-39
Matrix: Solid
Date Collected: 06/23/22 15:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 19:08	1
Ethylbenzene	**0.0181**		0.00200		mg/Kg		06/29/22 15:01	06/30/22 19:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 15:01	06/30/22 19:08	1
o-Xylene	**0.0179**		0.00200		mg/Kg		06/29/22 15:01	06/30/22 19:08	1
Xylenes, Total	**0.0179**		0.00399		mg/Kg		06/29/22 15:01	06/30/22 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*06/29/22 15:01*	*06/30/22 19:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 15:01*	*06/30/22 19:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0360**		0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/28/22 08:47*	*06/28/22 21:04*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/28/22 08:47*	*06/28/22 21:04*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS50

Lab Sample ID: 890-2462-39
Matrix: Solid
Date Collected: 06/23/22 15:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.05		mg/Kg			07/03/22 13:10	1

Client Sample ID: FS01

Lab Sample ID: 890-2462-40
Matrix: Solid
Date Collected: 06/23/22 12:55
Date Received: 06/27/22 08:00
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 15:01	06/30/22 19:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 15:01	06/30/22 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/29/22 15:01*	*06/30/22 19:29*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/29/22 15:01*	*06/30/22 19:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 21:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 21:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:47	06/28/22 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/28/22 08:47*	*06/28/22 21:25*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/28/22 08:47*	*06/28/22 21:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		4.97		mg/Kg			07/03/22 13:18	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS35

Lab Sample ID: 890-2462-41
Matrix: Solid
Date Collected: 06/23/22 11:15
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 15:01	06/30/22 19:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 15:01	06/30/22 19:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 15:01	06/30/22 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/29/22 15:01*	*06/30/22 19:49*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/29/22 15:01*	*06/30/22 19:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:45*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/28/22 08:51*	*06/28/22 19:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.93**		5.00		mg/Kg			07/04/22 17:58	1

Client Sample ID: FS04

Lab Sample ID: 890-2462-42
Matrix: Solid
Date Collected: 06/23/22 12:30
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 20:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 20:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 20:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/22 15:01	06/30/22 20:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 15:01	06/30/22 20:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/22 15:01	06/30/22 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/29/22 15:01*	*06/30/22 20:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS04

Lab Sample ID: 890-2462-42
Matrix: Solid
Date Collected: 06/23/22 12:30
Date Received: 06/27/22 08:00
Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/29/22 15:01*	*06/30/22 20:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		06/28/22 08:51	06/28/22 20:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/28/22 08:51	06/28/22 20:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/28/22 08:51	06/28/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*117*		*70 - 130*	*06/28/22 08:51*	*06/28/22 20:07*	*1*
o-Terphenyl	*104*		*70 - 130*	*06/28/22 08:51*	*06/28/22 20:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**419**		4.99	mg/Kg			07/04/22 18:21	1

Client Sample ID: FS27

Lab Sample ID: 890-2462-43
Matrix: Solid
Date Collected: 06/23/22 09:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/29/22 15:01	06/30/22 20:30	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/29/22 15:01	06/30/22 20:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/29/22 15:01	06/30/22 20:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/29/22 15:01	06/30/22 20:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/29/22 15:01	06/30/22 20:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/29/22 15:01	06/30/22 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/29/22 15:01*	*06/30/22 20:30*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/29/22 15:01*	*06/30/22 20:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS27

Lab Sample ID: 890-2462-43
Matrix: Solid
Date Collected: 06/23/22 09:20
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 20:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 20:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*06/28/22 08:51*	*06/28/22 20:28*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/28/22 08:51*	*06/28/22 20:28*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.3**		4.98		mg/Kg			07/04/22 18:29	1

Client Sample ID: FS02

Lab Sample ID: 890-2462-44
Matrix: Solid
Date Collected: 06/23/22 12:05
Date Received: 06/27/22 08:00
Sample Depth: 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 16:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 16:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 16:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/22 14:58	06/30/22 16:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 16:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/22 14:58	06/30/22 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/29/22 14:58*	*06/30/22 16:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/29/22 14:58*	*06/30/22 16:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 20:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*06/28/22 08:51*	*06/28/22 20:49*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS02

Lab Sample ID: 890-2462-44
Matrix: Solid
Date Collected: 06/23/22 12:05
Date Received: 06/27/22 08:00
Sample Depth: 2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.75		5.00		mg/Kg			07/04/22 18:37	1

Client Sample ID: FS07

Lab Sample ID: 890-2462-45
Matrix: Solid
Date Collected: 06/23/22 12:40
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/29/22 14:58	06/30/22 16:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/29/22 14:58	06/30/22 16:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/29/22 14:58	06/30/22 16:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/29/22 14:58	06/30/22 16:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/29/22 14:58	06/30/22 16:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/29/22 14:58	06/30/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/29/22 14:58*	*06/30/22 16:57*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/29/22 14:58*	*06/30/22 16:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 21:11*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/28/22 08:51*	*06/28/22 21:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		4.95		mg/Kg			07/04/22 18:45	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS34

Lab Sample ID: 890-2462-46
Matrix: Solid
Date Collected: 06/23/22 11:10
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 14:58	06/30/22 17:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/22 14:58	06/30/22 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:17*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 21:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 21:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*06/28/22 08:51*	*06/28/22 21:32*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/28/22 08:51*	*06/28/22 21:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.3**		5.01		mg/Kg			07/04/22 19:08	1

Client Sample ID: FS38

Lab Sample ID: 890-2462-47
Matrix: Solid
Date Collected: 06/23/22 11:35
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 17:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 17:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 17:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 14:58	06/30/22 17:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 17:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 14:58	06/30/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS38

Lab Sample ID: 890-2462-47
Matrix: Solid
Date Collected: 06/23/22 11:35
Date Received: 06/27/22 08:00
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 21:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*111*		*70 - 130*	*06/28/22 08:51*	*06/28/22 21:54*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/28/22 08:51*	*06/28/22 21:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		4.98		mg/Kg			07/04/22 19:16	1

Client Sample ID: SW01

Lab Sample ID: 890-2462-48
Matrix: Solid
Date Collected: 06/23/22 13:00
Date Received: 06/27/22 08:00
Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/22 14:58	06/30/22 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 17:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/22 14:58	06/30/22 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:58*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/29/22 14:58*	*06/30/22 17:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: SW01

Lab Sample ID: 890-2462-48
Matrix: Solid
Date Collected: 06/23/22 13:00
Date Received: 06/27/22 08:00
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/28/22 08:51	06/28/22 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 08:51	06/28/22 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*06/28/22 08:51*	*06/28/22 22:15*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/28/22 08:51*	*06/28/22 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.00		mg/Kg			07/04/22 19:24	1

Client Sample ID: FS05

Lab Sample ID: 890-2462-49
Matrix: Solid
Date Collected: 06/23/22 12:35
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 18:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/29/22 14:58	06/30/22 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 18:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/29/22 14:58	06/30/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/29/22 14:58*	*06/30/22 18:19*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/29/22 14:58*	*06/30/22 18:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 07:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 07:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*06/28/22 16:43*	*06/29/22 07:03*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 16:43*	*06/29/22 07:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS05

Lab Sample ID: 890-2462-49
Matrix: Solid
Date Collected: 06/23/22 12:35
Date Received: 06/27/22 08:00
Sample Depth: 1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**199**		4.95		mg/Kg			07/04/22 19:32	1

Client Sample ID: FS32

Lab Sample ID: 890-2462-50
Matrix: Solid
Date Collected: 06/23/22 10:40
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/29/22 14:58	06/30/22 18:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/29/22 14:58	06/30/22 18:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/29/22 14:58	06/30/22 18:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/29/22 14:58	06/30/22 18:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/29/22 14:58	06/30/22 18:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/29/22 14:58	06/30/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/29/22 14:58*	*06/30/22 18:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/29/22 14:58*	*06/30/22 18:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**271**		50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 07:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 07:24	1
Oil Range Organics (Over C28-C36)	**271**		50.0		mg/Kg		06/28/22 16:43	06/29/22 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*06/28/22 16:43*	*06/29/22 07:24*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/28/22 16:43*	*06/29/22 07:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.9**		5.05		mg/Kg			07/03/22 20:17	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS40

Lab Sample ID: 890-2462-51
Matrix: Solid
Date Collected: 06/23/22 13:08
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/29/22 14:58	06/30/22 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 19:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/29/22 14:58	06/30/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/29/22 08:44	06/30/22 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/29/22 08:44	06/30/22 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/29/22 08:44	06/30/22 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/29/22 08:44*	*06/30/22 14:42*	*1*
o-Terphenyl	*118*		*70 - 130*	*06/29/22 08:44*	*06/30/22 14:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**474**		5.00		mg/Kg			07/03/22 20:24	1

Client Sample ID: FS39

Lab Sample ID: 890-2462-52
Matrix: Solid
Date Collected: 06/23/22 11:40
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 19:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 19:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 19:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/29/22 14:58	06/30/22 19:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/29/22 14:58	06/30/22 19:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/29/22 14:58	06/30/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS39

Date Collected: 06/23/22 11:40
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Lab Sample ID: 890-2462-52

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/29/22 08:44	06/30/22 15:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/29/22 08:44	06/30/22 15:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/29/22 08:44	06/30/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*06/29/22 08:44*	*06/30/22 15:03*	*1*
o-Terphenyl	*107*		*70 - 130*	*06/29/22 08:44*	*06/30/22 15:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**	**F1**	5.01	mg/Kg			07/03/22 20:32	1

Client Sample ID: FS37

Date Collected: 06/23/22 11:30
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Lab Sample ID: 890-2462-53

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/22 14:58	06/30/22 19:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/22 14:58	06/30/22 19:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/22 14:58	06/30/22 19:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/29/22 14:58	06/30/22 19:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/22 14:58	06/30/22 19:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/29/22 14:58	06/30/22 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:41*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/29/22 14:58*	*06/30/22 19:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/01/22 10:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/29/22 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS37

Date Collected: 06/23/22 11:30
Date Received: 06/27/22 08:00
Sample Depth: 0.5

Lab Sample ID: 890-2462-53

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/29/22 08:44	06/30/22 15:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/29/22 08:44	06/30/22 15:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/22 08:44	06/30/22 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/29/22 08:44*	*06/30/22 15:25*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/29/22 08:44*	*06/30/22 15:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		4.97		mg/Kg			07/03/22 20:56	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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)										
880-16308-A-33-E MS	Matrix Spike	107	101										
880-16308-A-33-F MSD	Matrix Spike Duplicate	107	102										
880-16364-A-7-B MS	Matrix Spike	76	96										
880-16364-A-7-C MSD	Matrix Spike Duplicate	94	98										
880-16436-A-21-C MS	Matrix Spike	106	103										
880-16436-A-21-D MSD	Matrix Spike Duplicate	110	103										
880-16436-A-31-C MS	Matrix Spike	101	99										
880-16436-A-31-D MSD	Matrix Spike Duplicate	109	91										
890-2462-1	FS11	83	98										
890-2462-2	FS09A	83	100										
890-2462-3	FS12A	95	104										
890-2462-4	FS10	92	91										
890-2462-5	FS22	99	89										
890-2462-5 MS	FS22	105	110										
890-2462-5 MSD	FS22	97	96										
890-2462-6	FS26	97	90										
890-2462-7	FS23	100	90										
890-2462-8	FS21	113	96										
890-2462-9	FS24	105	102										
890-2462-10	FS13A	96	96										
890-2462-11	FS06	107	101										
890-2462-12	FS25	106	89										
890-2462-13	FS08	106	90										
890-2462-14	FS17	102	96										
890-2462-15	FS16	109	107										
890-2462-15 MS	FS16	109	99										
890-2462-15 MSD	FS16	114	98										
890-2462-16	FS15	122	97										
890-2462-17	FS18	111	107										
890-2462-18	FS19	120	100										
890-2462-19	FS14	112	98										
890-2462-20	FS20	120	97										
890-2462-21	FS24	112	102										
890-2462-22	FS03	116	97										
890-2462-23	SW02	109	99										
890-2462-24	FS31	114	102										
890-2462-25	FS30	113	101										
890-2462-26	FS33	117	100										
890-2462-27	FS41	108	99										
890-2462-28	FS36	118	104										
890-2462-29	FS23	118	99										
890-2462-30	FS28	116	104										
890-2462-31	FS49	114	99										
890-2462-32	FS44	114	102										
890-2462-33	FS46	116	101										
890-2462-34	FS48	114	101										
890-2462-35	FS43	127	97										
890-2462-36	FS45	115	95										
890-2462-37	FS47	120	98										

Surrogate Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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)
890-2462-38	FS42	122	95
890-2462-39	FS50	143 S1+	97
890-2462-40	FS01	105	99
890-2462-41	FS35	104	96
890-2462-42	FS04	102	98
890-2462-43	FS27	104	96
890-2462-44	FS02	107	94
890-2462-45	FS07	109	95
890-2462-46	FS34	113	98
890-2462-47	FS38	108	97
890-2462-48	SW01	110	96
890-2462-49	FS05	113	98
890-2462-50	FS32	110	97
890-2462-51	FS40	112	94
890-2462-52	FS39	112	94
890-2462-53	FS37	111	96
890-2497-A-28-D MS	Matrix Spike	119	97
890-2497-A-28-E MSD	Matrix Spike Duplicate	113	97
LCS 880-28545/1-A	Lab Control Sample	99	103
LCS 880-28660/1-A	Lab Control Sample	119	99
LCS 880-28677/1-A	Lab Control Sample	108	103
LCS 880-28678/1-A	Lab Control Sample	99	97
LCS 880-28826/1-A	Lab Control Sample	105	99
LCS 880-29033/1-A	Lab Control Sample	103	108
LCS 880-29103/1-A	Lab Control Sample	108	97
LCSD 880-28545/2-A	Lab Control Sample Dup	101	97
LCSD 880-28660/2-A	Lab Control Sample Dup	119	100
LCSD 880-28677/2-A	Lab Control Sample Dup	104	102
LCSD 880-28678/2-A	Lab Control Sample Dup	99	95
LCSD 880-28826/2-A	Lab Control Sample Dup	110	103
LCSD 880-29033/2-A	Lab Control Sample Dup	102	98
LCSD 880-29103/2-A	Lab Control Sample Dup	109	94
MB 880-28545/5-A	Method Blank	73	91
MB 880-28660/5-A	Method Blank	103	98
MB 880-28677/5-A	Method Blank	102	88
MB 880-28678/5-A	Method Blank	101	98
MB 880-28826/5-A	Method Blank	97	86
MB 880-29033/5-A	Method Blank	73	90
MB 880-29048/5-A	Method Blank	103	94
MB 880-29103/5-A	Method Blank	103	95

Surrogate Legend

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

Surrogate Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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)								
880-16321-A-2-C MS	Matrix Spike	128	103								
880-16321-A-2-D MSD	Matrix Spike Duplicate	127	102								
890-2462-1	FS11	114	131 S1+								
890-2462-1 MS	FS11	101	99								
890-2462-1 MSD	FS11	102	103								
890-2462-2	FS09A	99	110								
890-2462-3	FS12A	135 S1+	151 S1+								
890-2462-4	FS10	120	134 S1+								
890-2462-5	FS22	108	121								
890-2462-6	FS26	122	137 S1+								
890-2462-7	FS23	123	138 S1+								
890-2462-8	FS21	105	119								
890-2462-9	FS24	119	132 S1+								
890-2462-10	FS13A	106	119								
890-2462-11	FS06	109	122								
890-2462-12	FS25	105	119								
890-2462-13	FS08	103	116								
890-2462-14	FS17	104	118								
890-2462-15	FS16	128	143 S1+								
890-2462-16	FS15	102	114								
890-2462-17	FS18	103	116								
890-2462-18	FS19	104	119								
890-2462-19	FS14	101	114								
890-2462-20	FS20	104	118								
890-2462-21	FS24	97	96								
890-2462-21 MS	FS24	83	77								
890-2462-21 MSD	FS24	83	77								
890-2462-22	FS03	98	102								
890-2462-23	SW02	99	102								
890-2462-24	FS31	109	113								
890-2462-25	FS30	105	105								
890-2462-26	FS33	101	105								
890-2462-27	FS41	95	98								
890-2462-28	FS36	111	116								
890-2462-29	FS23	93	98								
890-2462-30	FS28	94	95								
890-2462-31	FS49	89	89								
890-2462-32	FS44	102	104								
890-2462-33	FS46	90	92								
890-2462-34	FS48	81	82								
890-2462-35	FS43	81	81								
890-2462-36	FS45	105	108								
890-2462-37	FS47	83	85								
890-2462-38	FS42	85	87								
890-2462-39	FS50	103	105								
890-2462-40	FS01	96	102								
890-2462-41	FS35	115	104								
890-2462-42	FS04	117	104								
890-2462-43	FS27	116	102								
890-2462-44	FS02	133 S1+	120								

Surrogate Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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)
890-2462-45	FS07	136 S1+	122
890-2462-46	FS34	138 S1+	122
890-2462-47	FS38	111	100
890-2462-48	SW01	113	101
890-2462-49	FS05	134 S1+	119
890-2462-50	FS32	133 S1+	116
890-2462-51	FS40	104	118
890-2462-52	FS39	93	107
890-2462-53	FS37	104	119
890-2467-A-1-F MSD	Matrix Spike Duplicate	109	85
890-2467-A-1-G MS	Matrix Spike	124	99
890-2468-A-1-D MS	Matrix Spike	100	96
890-2468-A-1-E MSD	Matrix Spike Duplicate	88	85
LCS 880-28504/2-A	Lab Control Sample	99	107
LCS 880-28505/2-A	Lab Control Sample	84	86
LCS 880-28506/2-A	Lab Control Sample	141 S1+	121
LCS 880-28577/2-A	Lab Control Sample	122	105
LCS 880-28611/2-A	Lab Control Sample	85	90
LCSD 880-28504/3-A	Lab Control Sample Dup	90	102
LCSD 880-28505/3-A	Lab Control Sample Dup	85	88
LCSD 880-28506/3-A	Lab Control Sample Dup	117	101
LCSD 880-28577/3-A	Lab Control Sample Dup	131 S1+	112
LCSD 880-28611/3-A	Lab Control Sample Dup	98	102
MB 880-28504/1-A	Method Blank	102	114
MB 880-28505/1-A	Method Blank	112	119
MB 880-28506/1-A	Method Blank	107	98
MB 880-28577/1-A	Method Blank	128	116
MB 880-28611/1-A	Method Blank	102	117

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28545/5-A
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28545

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/28/22 13:09	07/03/22 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/28/22 13:09	07/03/22 17:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/28/22 13:09	07/03/22 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*06/28/22 13:09*	*07/03/22 17:58*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/28/22 13:09*	*07/03/22 17:58*	*1*

Lab Sample ID: LCS 880-28545/1-A
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28545

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08660		mg/Kg		87	70 - 130		
Toluene			0.100	0.08757		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08455		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1729		mg/Kg		86	70 - 130		
o-Xylene			0.100	0.09586		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-28545/2-A
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28545

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09170		mg/Kg		92	70 - 130	6	35
Toluene			0.100	0.08949		mg/Kg		89	70 - 130	2	35
Ethylbenzene			0.100	0.08729		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1795		mg/Kg		90	70 - 130	4	35
o-Xylene			0.100	0.1009		mg/Kg		101	70 - 130	5	35

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

Lab Sample ID: 880-16364-A-7-B MS
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130		
Toluene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg		1	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 880-16364-A-7-B MS
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.003230	F1	mg/Kg		3	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.007513	F1	mg/Kg		4	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.004078	F1	mg/Kg		4	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-16364-A-7-C MSD
Matrix: Solid
Analysis Batch: 28968

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35
Toluene	<0.00200	U F1	0.101	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.101	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U F1	0.201	<0.00402	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.101	<0.00201	U F1	mg/Kg		0	70 - 130	NC	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-28660/5-A
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28660

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 14:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 14:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/22 12:27	07/05/22 14:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/22 12:27	07/05/22 14:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/22 12:27	07/05/22 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/29/22 12:27*	*07/05/22 14:51*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/29/22 12:27*	*07/05/22 14:51*	*1*

Lab Sample ID: LCS 880-28660/1-A
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1179		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1045		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2154		mg/Kg		108	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-28660/1-A
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28660

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1218		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-28660/2-A
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28660

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1154		mg/Kg		115	70 - 130	5	35
Toluene			0.100	0.1277		mg/Kg		128	70 - 130	8	35
Ethylbenzene			0.100	0.1119		mg/Kg		112	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2312		mg/Kg		116	70 - 130	7	35
o-Xylene			0.100	0.1301		mg/Kg		130	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2462-15 MS
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: FS16
Prep Type: Total/NA
Prep Batch: 28660

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.08362		mg/Kg		84	70 - 130		
Toluene	<0.00199	U	0.0998	0.07438		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00199	U F1	0.0998	0.05685	F1	mg/Kg		57	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1077	F1	mg/Kg		54	70 - 130		
o-Xylene	<0.00199	U F1	0.0998	0.06718	F1	mg/Kg		67	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2462-15 MSD
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: FS16
Prep Type: Total/NA
Prep Batch: 28660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08477		mg/Kg		85	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.07613		mg/Kg		76	70 - 130	2	35
Ethylbenzene	<0.00199	U F1	0.100	0.05714	F1	mg/Kg		57	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1041	F1	mg/Kg		52	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.100	0.06856	F1	mg/Kg		68	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2462-15 MSD
Matrix: Solid
Analysis Batch: 28983

Client Sample ID: FS16
Prep Type: Total/NA
Prep Batch: 28660

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-28677/5-A
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28677

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/29/22 14:58	06/30/22 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/29/22 14:58	06/30/22 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/29/22 14:58	06/30/22 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/29/22 14:58	06/30/22 11:35	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/29/22 14:58	06/30/22 11:35	1

Lab Sample ID: LCS 880-28677/1-A
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28677

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09900		mg/Kg		99	70 - 130		
Toluene			0.100	0.09852		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1047		mg/Kg		105	70 - 130		
m-Xylene & p-Xylene			0.200	0.2144		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1075		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-28677/2-A
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28677

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08905		mg/Kg		89	70 - 130	11	35
Toluene			0.100	0.08825		mg/Kg		88	70 - 130	11	35
Ethylbenzene			0.100	0.09309		mg/Kg		93	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1902		mg/Kg		95	70 - 130	12	35
o-Xylene			0.100	0.09553		mg/Kg		96	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-28677/2-A
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28677

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

Lab Sample ID: 880-16436-A-21-C MS
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08059		mg/Kg		80	70 - 130
Toluene	<0.00200	U	0.100	0.07937		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08033		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1631		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.100	0.08211		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-16436-A-21-D MSD
Matrix: Solid
Analysis Batch: 28709

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28677

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.08098		mg/Kg		81	70 - 130	0	35
Toluene	<0.00200	U	0.0998	0.07789		mg/Kg		77	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0998	0.07661		mg/Kg		77	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1551		mg/Kg		78	70 - 130	5	35
o-Xylene	<0.00200	U	0.0998	0.07844		mg/Kg		79	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-28678/5-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28678

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/29/22 15:01	06/30/22 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/29/22 15:01	06/30/22 12:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/29/22 15:01	06/30/22 12:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/29/22 15:01	06/30/22 12:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/29/22 15:01	06/30/22 12:01	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/29/22 15:01	06/30/22 12:01	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-28678/1-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28678

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08532		mg/Kg		85	70 - 130		
Toluene			0.100	0.09806		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.08863		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1788		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.1012		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-28678/2-A
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28678

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08687		mg/Kg		87	70 - 130	2	35
Toluene			0.100	0.09372		mg/Kg		94	70 - 130	5	35
Ethylbenzene			0.100	0.08625		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1738		mg/Kg		87	70 - 130	3	35
o-Xylene			0.100	0.09882		mg/Kg		99	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-16436-A-31-C MS
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.07794		mg/Kg		78	70 - 130		
Toluene	<0.00201	U	0.100	0.08319		mg/Kg		83	70 - 130		
Ethylbenzene	<0.00201	U F1	0.100	0.07129		mg/Kg		71	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1432		mg/Kg		71	70 - 130		
o-Xylene	<0.00201	U	0.100	0.08106		mg/Kg		81	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-16436-A-31-D MSD
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.06358	F1	mg/Kg		64	70 - 130	20	35
Toluene	<0.00201	U	0.0990	0.07789		mg/Kg		79	70 - 130	7	35
Ethylbenzene	<0.00201	U F1	0.0990	0.06727	F1	mg/Kg		68	70 - 130	6	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 880-16436-A-31-D MSD
Matrix: Solid
Analysis Batch: 28710

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28678

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 F1	0.198	0.1373	F1	mg/Kg		69	70 - 130	4	35
o-Xylene	<0.00201	U	0.0990	0.07979		mg/Kg		81	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-28826/5-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28826

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 10:06	07/01/22 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/22 10:06	07/01/22 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*07/01/22 10:06*	*07/01/22 11:31*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/01/22 10:06*	*07/01/22 11:31*	*1*

Lab Sample ID: LCS 880-28826/1-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28826

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08384		mg/Kg		84	70 - 130		
Toluene			0.100	0.08230		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08557		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1777		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.08976		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-28826/2-A
Matrix: Solid
Analysis Batch: 28820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28826

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09843		mg/Kg		98	70 - 130	16	35
Toluene			0.100	0.09557		mg/Kg		96	70 - 130	15	35
Ethylbenzene			0.100	0.1006		mg/Kg		101	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.2063		mg/Kg		103	70 - 130	15	35
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	15	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-16308-A-33-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28820 — **Prep Batch: 28826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09687		mg/Kg		97	70 - 130
Toluene	<0.00200	U	0.100	0.09264		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09431		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1929		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.09484		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-16308-A-33-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28820 — **Prep Batch: 28826**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0992	0.1030		mg/Kg		104	70 - 130	6	35
Toluene	<0.00200	U	0.0992	0.09838		mg/Kg		99	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.0992	0.1001		mg/Kg		101	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2042		mg/Kg		103	70 - 130	6	35
o-Xylene	<0.00200	U	0.0992	0.1012		mg/Kg		102	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-29033/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28985 — **Prep Batch: 29033**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/05/22 13:16	07/05/22 14:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/05/22 13:16	07/05/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/05/22 13:16	07/05/22 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/05/22 13:16	07/05/22 14:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/05/22 13:16	07/05/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/05/22 13:16	07/05/22 14:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/05/22 13:16	07/05/22 14:50	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/05/22 13:16	07/05/22 14:50	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-29033/1-A
Matrix: Solid
Analysis Batch: 28985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29033

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1006		mg/Kg		101	70 - 130		
Toluene			0.100	0.08966		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.08674		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1776		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09735		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-29033/2-A
Matrix: Solid
Analysis Batch: 28985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07970		mg/Kg		80	70 - 130	23	35
Toluene			0.100	0.08092		mg/Kg		81	70 - 130	10	35
Ethylbenzene			0.100	0.07745		mg/Kg		77	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1590		mg/Kg		80	70 - 130	11	35
o-Xylene			0.100	0.08768		mg/Kg		88	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-2462-5 MS
Matrix: Solid
Analysis Batch: 28985

Client Sample ID: FS22
Prep Type: Total/NA
Prep Batch: 29033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1054		mg/Kg		104	70 - 130		
Toluene	<0.00199	U	0.101	0.09082		mg/Kg		89	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.08420		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1711		mg/Kg		85	70 - 130		
o-Xylene	<0.00199	U	0.101	0.09733		mg/Kg		96	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-2462-5 MSD
Matrix: Solid
Analysis Batch: 28985

Client Sample ID: FS22
Prep Type: Total/NA
Prep Batch: 29033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08774		mg/Kg		88	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.08635		mg/Kg		86	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.100	0.08359		mg/Kg		83	70 - 130	1	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2462-5 MSD
Matrix: Solid
Analysis Batch: 28985

Client Sample ID: FS22
Prep Type: Total/NA
Prep Batch: 29033

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1715		mg/Kg		86	70 - 130	0	35
o-Xylene	<0.00199	U	0.100	0.09489		mg/Kg		95	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-29048/5-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29048

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/22 13:34	07/06/22 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/05/22 13:34*	*07/06/22 12:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/05/22 13:34*	*07/06/22 12:38*	*1*

Lab Sample ID: MB 880-29103/5-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29103

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 00:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 00:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 00:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/06/22 08:22	07/07/22 00:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/06/22 08:22	07/07/22 00:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/06/22 08:22*	*07/07/22 00:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/06/22 08:22*	*07/07/22 00:17*	*1*

Lab Sample ID: LCS 880-29103/1-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29103

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08513		mg/Kg		85	70 - 130		
Toluene			0.100	0.09781		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.08309		mg/Kg		83	70 - 130		
m-Xylene & p-Xylene			0.200	0.1704		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-29103/1-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29103

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09824		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-29103/2-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08785		mg/Kg		88	70 - 130	3	35
Toluene			0.100	0.1022		mg/Kg		102	70 - 130	4	35
Ethylbenzene			0.100	0.08832		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1802		mg/Kg		90	70 - 130	6	35
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-2497-A-28-D MS
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.100	0.09464		mg/Kg		94	70 - 130		
Toluene	<0.00199	U	0.100	0.1113		mg/Kg		111	70 - 130		
Ethylbenzene	<0.00199	U	0.100	0.09784		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2030		mg/Kg		101	70 - 130		
o-Xylene	<0.00199	U	0.100	0.1165		mg/Kg		116	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2497-A-28-E MSD
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29103

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09288		mg/Kg		92	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.1049		mg/Kg		104	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.101	0.09139		mg/Kg		90	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1877		mg/Kg		93	70 - 130	8	35
o-Xylene	<0.00199	U	0.101	0.1082		mg/Kg		107	70 - 130	7	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2497-A-28-E MSD
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29103

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-28504/1-A
Matrix: Solid
Analysis Batch: 28513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28504

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		06/28/22 08:44	06/28/22 11:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:44	06/28/22 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/28/22 08:44	06/28/22 11:42	1
o-Terphenyl	114		70 - 130	06/28/22 08:44	06/28/22 11:42	1

Lab Sample ID: LCS 880-28504/2-A
Matrix: Solid
Analysis Batch: 28513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28504

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	950.1		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	671.7	*-	mg/Kg		67	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-28504/3-A
Matrix: Solid
Analysis Batch: 28513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28504

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1256	*1	mg/Kg		126	70 - 130	28	20
Diesel Range Organics (Over C10-C28)			1000	657.0	*-	mg/Kg		66	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2462-1 MS — **Client Sample ID: FS11**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28513 — **Prep Batch: 28504**

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 *1	996	1287		mg/Kg		129	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	810.0		mg/Kg		78	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 890-2462-1 MSD — **Client Sample ID: FS11**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28513 — **Prep Batch: 28504**

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 *1	996	1060		mg/Kg		106	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.9	U *-	996	844.8		mg/Kg		81	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: MB 880-28505/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28519 — **Prep Batch: 28505**

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		06/28/22 08:47	06/28/22 11:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 11:42	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:47	06/28/22 11:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*06/28/22 08:47*	*06/28/22 11:42*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/28/22 08:47*	*06/28/22 11:42*	*1*

Lab Sample ID: LCS 880-28505/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 28519 — **Prep Batch: 28505**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1085		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	898.5		mg/Kg		90	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCS 880-28505/2-A
Matrix: Solid
Analysis Batch: 28519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28505

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: LCSD 880-28505/3-A
Matrix: Solid
Analysis Batch: 28519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1053		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	858.4		mg/Kg		86	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-2462-21 MS
Matrix: Solid
Analysis Batch: 28519

Client Sample ID: FS24
Prep Type: Total/NA
Prep Batch: 28505

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	996	943.5		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	870.8		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 890-2462-21 MSD
Matrix: Solid
Analysis Batch: 28519

Client Sample ID: FS24
Prep Type: Total/NA
Prep Batch: 28505

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	996	957.4		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	880.0		mg/Kg		86	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	77		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-28506/1-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28506

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		06/28/22 08:51	06/28/22 13:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 13:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 08:51	06/28/22 13:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/28/22 08:51*	*06/28/22 13:19*	*1*
o-Terphenyl	*98*		*70 - 130*	*06/28/22 08:51*	*06/28/22 13:19*	*1*

Lab Sample ID: LCS 880-28506/2-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28506

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1169		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1179		mg/Kg		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*141*	*S1+*	*70 - 130*
o-Terphenyl	*121*		*70 - 130*

Lab Sample ID: LCSD 880-28506/3-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28506

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	950.3	*1	mg/Kg		95	70 - 130	21	20
Diesel Range Organics (Over C10-C28)			1000	982.3		mg/Kg		98	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: 890-2467-A-1-F MSD
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28506

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 *1 F1	996	1171		mg/Kg		118	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	952.5		mg/Kg		94	70 - 130	9	20

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2467-A-1-F MSD
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28506

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-2467-A-1-G MS
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28506

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 *1 F1	996	1346	F1	mg/Kg		135	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1044		mg/Kg		103	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: MB 880-28577/1-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28577

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		06/28/22 16:43	06/28/22 22:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/28/22 22:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/28/22 22:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	06/28/22 16:43	06/28/22 22:59	1
o-Terphenyl	116		70 - 130	06/28/22 16:43	06/28/22 22:59	1

Lab Sample ID: LCS 880-28577/2-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28577

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: LCSD 880-28577/3-A
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28577

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1091		mg/Kg		109	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	1083		mg/Kg		108	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 880-16321-A-2-C MS
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28577

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 F1	996	1642	F1	mg/Kg		165	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1290		mg/Kg		129	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-16321-A-2-D MSD
Matrix: Solid
Analysis Batch: 28522

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28577

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 F1	996	1625	F1	mg/Kg		163	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1283		mg/Kg		129	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Lab Sample ID: MB 880-28611/1-A
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28611

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		06/29/22 08:44	06/30/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/29/22 08:44	06/30/22 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/29/22 08:44	06/30/22 10:43	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: MB 880-28611/1-A
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28611

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	06/29/22 08:44	06/30/22 10:43	1
o-Terphenyl	117		70 - 130	06/29/22 08:44	06/30/22 10:43	1

Lab Sample ID: LCS 880-28611/2-A
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28611

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	807.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-28611/3-A
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28611

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	900.3		mg/Kg		90	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1118		mg/Kg		112	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-2468-A-1-D MS
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28611

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	996	1246		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1179		mg/Kg		118	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	96		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Lab Sample ID: 890-2468-A-1-E MSD
Matrix: Solid
Analysis Batch: 28717

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28611

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	996	1097		mg/Kg		110	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1071		mg/Kg		108	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28456/1-A
Matrix: Solid
Analysis Batch: 28863

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			07/02/22 19:37	1

Lab Sample ID: LCS 880-28456/2-A
Matrix: Solid
Analysis Batch: 28863

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.1		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-28456/3-A
Matrix: Solid
Analysis Batch: 28863

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	260.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-2462-1 MS
Matrix: Solid
Analysis Batch: 28863

Client Sample ID: FS11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	203	F1	249	505.3	F1	mg/Kg		122	90 - 110		

Lab Sample ID: 890-2462-1 MSD
Matrix: Solid
Analysis Batch: 28863

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	203	F1	249	505.8	F1	mg/Kg		122	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2462-11 MS
Matrix: Solid
Analysis Batch: 28863

Client Sample ID: FS06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	313	F1	253	599.1	F1	mg/Kg		113	90 - 110

Lab Sample ID: 890-2462-11 MSD
Matrix: Solid
Analysis Batch: 28863

Client Sample ID: FS06
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	313	F1	253	599.9	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: MB 880-28457/1-A
Matrix: Solid
Analysis Batch: 28868

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			07/03/22 09:23	1

Lab Sample ID: LCS 880-28457/2-A
Matrix: Solid
Analysis Batch: 28868

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	267.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-28457/3-A
Matrix: Solid
Analysis Batch: 28868

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	267.6		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-2462-21 MS
Matrix: Solid
Analysis Batch: 28868

Client Sample ID: FS24
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	215		250	451.5		mg/Kg		95	90 - 110

Lab Sample ID: 890-2462-21 MSD
Matrix: Solid
Analysis Batch: 28868

Client Sample ID: FS24
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	215		250	453.1		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-2462-31 MS
Matrix: Solid
Analysis Batch: 28868

Client Sample ID: FS49
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.05	F1	250	299.5	F1	mg/Kg		116	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2462-31 MSD — **Client Sample ID: FS49**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.05	F1	250	299.1	F1	mg/Kg		116	90 - 110	0	20

Lab Sample ID: MB 880-28556/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28884

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/03/22 18:19	1

Lab Sample ID: LCS 880-28556/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	263.1		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-28556/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28884

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.9		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-2462-52 MS — **Client Sample ID: FS39**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28884

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	307	F1	251	674.0	F1	mg/Kg		146	90 - 110		

Lab Sample ID: 890-2462-52 MSD — **Client Sample ID: FS39**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28884

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	307	F1	251	665.6	F1	mg/Kg		143	90 - 110	1	20

Lab Sample ID: MB 880-28555/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28977

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/04/22 17:34	1

Lab Sample ID: LCS 880-28555/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 28977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.0		mg/Kg		98	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-28555/3-A
Matrix: Solid
Analysis Batch: 28977

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	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2462-41 MS
Matrix: Solid
Analysis Batch: 28977

Client Sample ID: FS35
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.93		250	277.6		mg/Kg		108	90 - 110

Lab Sample ID: 890-2462-41 MSD
Matrix: Solid
Analysis Batch: 28977

Client Sample ID: FS35
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.93		250	278.3		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA

Prep Batch: 28545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	5035	
890-2462-2	FS09A	Total/NA	Solid	5035	
890-2462-3	FS12A	Total/NA	Solid	5035	
890-2462-4	FS10	Total/NA	Solid	5035	
MB 880-28545/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28545/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28545/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16364-A-7-B MS	Matrix Spike	Total/NA	Solid	5035	
880-16364-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 28660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-15	FS16	Total/NA	Solid	5035	
890-2462-16	FS15	Total/NA	Solid	5035	
890-2462-17	FS18	Total/NA	Solid	5035	
890-2462-18	FS19	Total/NA	Solid	5035	
890-2462-19	FS14	Total/NA	Solid	5035	
890-2462-20	FS20	Total/NA	Solid	5035	
890-2462-21	FS24	Total/NA	Solid	5035	
890-2462-22	FS03	Total/NA	Solid	5035	
890-2462-23	SW02	Total/NA	Solid	5035	
890-2462-24	FS31	Total/NA	Solid	5035	
890-2462-25	FS30	Total/NA	Solid	5035	
890-2462-26	FS33	Total/NA	Solid	5035	
890-2462-27	FS41	Total/NA	Solid	5035	
890-2462-28	FS36	Total/NA	Solid	5035	
890-2462-29	FS23	Total/NA	Solid	5035	
890-2462-30	FS28	Total/NA	Solid	5035	
890-2462-31	FS49	Total/NA	Solid	5035	
890-2462-32	FS44	Total/NA	Solid	5035	
890-2462-33	FS46	Total/NA	Solid	5035	
890-2462-34	FS48	Total/NA	Solid	5035	
MB 880-28660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2462-15 MS	FS16	Total/NA	Solid	5035	
890-2462-15 MSD	FS16	Total/NA	Solid	5035	

Prep Batch: 28677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-44	FS02	Total/NA	Solid	5035	
890-2462-45	FS07	Total/NA	Solid	5035	
890-2462-46	FS34	Total/NA	Solid	5035	
890-2462-47	FS38	Total/NA	Solid	5035	
890-2462-48	SW01	Total/NA	Solid	5035	
890-2462-49	FS05	Total/NA	Solid	5035	
890-2462-50	FS32	Total/NA	Solid	5035	
890-2462-51	FS40	Total/NA	Solid	5035	
890-2462-52	FS39	Total/NA	Solid	5035	
890-2462-53	FS37	Total/NA	Solid	5035	
MB 880-28677/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA (Continued)

Prep Batch: 28677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-28677/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28677/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16436-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16436-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 28678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-39	FS50	Total/NA	Solid	5035	
890-2462-40	FS01	Total/NA	Solid	5035	
890-2462-41	FS35	Total/NA	Solid	5035	
890-2462-42	FS04	Total/NA	Solid	5035	
890-2462-43	FS27	Total/NA	Solid	5035	
MB 880-28678/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28678/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28678/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16436-A-31-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16436-A-31-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-44	FS02	Total/NA	Solid	8021B	28677
890-2462-45	FS07	Total/NA	Solid	8021B	28677
890-2462-46	FS34	Total/NA	Solid	8021B	28677
890-2462-47	FS38	Total/NA	Solid	8021B	28677
890-2462-48	SW01	Total/NA	Solid	8021B	28677
890-2462-49	FS05	Total/NA	Solid	8021B	28677
890-2462-50	FS32	Total/NA	Solid	8021B	28677
890-2462-51	FS40	Total/NA	Solid	8021B	28677
890-2462-52	FS39	Total/NA	Solid	8021B	28677
890-2462-53	FS37	Total/NA	Solid	8021B	28677
MB 880-28677/5-A	Method Blank	Total/NA	Solid	8021B	28677
LCS 880-28677/1-A	Lab Control Sample	Total/NA	Solid	8021B	28677
LCSD 880-28677/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28677
880-16436-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	28677
880-16436-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28677

Analysis Batch: 28710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-39	FS50	Total/NA	Solid	8021B	28678
890-2462-40	FS01	Total/NA	Solid	8021B	28678
890-2462-41	FS35	Total/NA	Solid	8021B	28678
890-2462-42	FS04	Total/NA	Solid	8021B	28678
890-2462-43	FS27	Total/NA	Solid	8021B	28678
MB 880-28678/5-A	Method Blank	Total/NA	Solid	8021B	28678
LCS 880-28678/1-A	Lab Control Sample	Total/NA	Solid	8021B	28678
LCSD 880-28678/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28678
880-16436-A-31-C MS	Matrix Spike	Total/NA	Solid	8021B	28678
880-16436-A-31-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28678

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA

Analysis Batch: 28820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28826/5-A	Method Blank	Total/NA	Solid	8021B	28826
LCS 880-28826/1-A	Lab Control Sample	Total/NA	Solid	8021B	28826
LCSD 880-28826/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28826
880-16308-A-33-E MS	Matrix Spike	Total/NA	Solid	8021B	28826
880-16308-A-33-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28826

Prep Batch: 28826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28826/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28826/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28826/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16308-A-33-E MS	Matrix Spike	Total/NA	Solid	5035	
880-16308-A-33-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	Total BTEX	
890-2462-2	FS09A	Total/NA	Solid	Total BTEX	
890-2462-3	FS12A	Total/NA	Solid	Total BTEX	
890-2462-4	FS10	Total/NA	Solid	Total BTEX	
890-2462-5	FS22	Total/NA	Solid	Total BTEX	
890-2462-6	FS26	Total/NA	Solid	Total BTEX	
890-2462-7	FS23	Total/NA	Solid	Total BTEX	
890-2462-8	FS21	Total/NA	Solid	Total BTEX	
890-2462-9	FS24	Total/NA	Solid	Total BTEX	
890-2462-10	FS13A	Total/NA	Solid	Total BTEX	
890-2462-11	FS06	Total/NA	Solid	Total BTEX	
890-2462-12	FS25	Total/NA	Solid	Total BTEX	
890-2462-13	FS08	Total/NA	Solid	Total BTEX	
890-2462-14	FS17	Total/NA	Solid	Total BTEX	
890-2462-15	FS16	Total/NA	Solid	Total BTEX	
890-2462-16	FS15	Total/NA	Solid	Total BTEX	
890-2462-17	FS18	Total/NA	Solid	Total BTEX	
890-2462-18	FS19	Total/NA	Solid	Total BTEX	
890-2462-19	FS14	Total/NA	Solid	Total BTEX	
890-2462-20	FS20	Total/NA	Solid	Total BTEX	
890-2462-21	FS24	Total/NA	Solid	Total BTEX	
890-2462-22	FS03	Total/NA	Solid	Total BTEX	
890-2462-23	SW02	Total/NA	Solid	Total BTEX	
890-2462-24	FS31	Total/NA	Solid	Total BTEX	
890-2462-25	FS30	Total/NA	Solid	Total BTEX	
890-2462-26	FS33	Total/NA	Solid	Total BTEX	
890-2462-27	FS41	Total/NA	Solid	Total BTEX	
890-2462-28	FS36	Total/NA	Solid	Total BTEX	
890-2462-29	FS23	Total/NA	Solid	Total BTEX	
890-2462-30	FS28	Total/NA	Solid	Total BTEX	
890-2462-31	FS49	Total/NA	Solid	Total BTEX	
890-2462-32	FS44	Total/NA	Solid	Total BTEX	
890-2462-33	FS46	Total/NA	Solid	Total BTEX	
890-2462-34	FS48	Total/NA	Solid	Total BTEX	
890-2462-35	FS43	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA (Continued)

Analysis Batch: 28831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-36	FS45	Total/NA	Solid	Total BTEX	
890-2462-37	FS47	Total/NA	Solid	Total BTEX	
890-2462-38	FS42	Total/NA	Solid	Total BTEX	
890-2462-39	FS50	Total/NA	Solid	Total BTEX	
890-2462-40	FS01	Total/NA	Solid	Total BTEX	
890-2462-41	FS35	Total/NA	Solid	Total BTEX	
890-2462-42	FS04	Total/NA	Solid	Total BTEX	
890-2462-43	FS27	Total/NA	Solid	Total BTEX	
890-2462-44	FS02	Total/NA	Solid	Total BTEX	
890-2462-45	FS07	Total/NA	Solid	Total BTEX	
890-2462-46	FS34	Total/NA	Solid	Total BTEX	
890-2462-47	FS38	Total/NA	Solid	Total BTEX	
890-2462-48	SW01	Total/NA	Solid	Total BTEX	
890-2462-49	FS05	Total/NA	Solid	Total BTEX	
890-2462-50	FS32	Total/NA	Solid	Total BTEX	
890-2462-51	FS40	Total/NA	Solid	Total BTEX	
890-2462-52	FS39	Total/NA	Solid	Total BTEX	
890-2462-53	FS37	Total/NA	Solid	Total BTEX	

Analysis Batch: 28968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	8021B	28545
890-2462-2	FS09A	Total/NA	Solid	8021B	28545
890-2462-3	FS12A	Total/NA	Solid	8021B	28545
890-2462-4	FS10	Total/NA	Solid	8021B	28545
MB 880-28545/5-A	Method Blank	Total/NA	Solid	8021B	28545
LCS 880-28545/1-A	Lab Control Sample	Total/NA	Solid	8021B	28545
LCSD 880-28545/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28545
880-16364-A-7-B MS	Matrix Spike	Total/NA	Solid	8021B	28545
880-16364-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28545

Analysis Batch: 28983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-15	FS16	Total/NA	Solid	8021B	28660
890-2462-16	FS15	Total/NA	Solid	8021B	28660
890-2462-17	FS18	Total/NA	Solid	8021B	28660
890-2462-18	FS19	Total/NA	Solid	8021B	28660
890-2462-19	FS14	Total/NA	Solid	8021B	28660
890-2462-20	FS20	Total/NA	Solid	8021B	28660
890-2462-21	FS24	Total/NA	Solid	8021B	28660
890-2462-22	FS03	Total/NA	Solid	8021B	28660
890-2462-23	SW02	Total/NA	Solid	8021B	28660
890-2462-24	FS31	Total/NA	Solid	8021B	28660
890-2462-25	FS30	Total/NA	Solid	8021B	28660
890-2462-26	FS33	Total/NA	Solid	8021B	28660
890-2462-27	FS41	Total/NA	Solid	8021B	28660
890-2462-28	FS36	Total/NA	Solid	8021B	28660
890-2462-29	FS23	Total/NA	Solid	8021B	28660
890-2462-30	FS28	Total/NA	Solid	8021B	28660
890-2462-31	FS49	Total/NA	Solid	8021B	28660
890-2462-32	FS44	Total/NA	Solid	8021B	28660

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA (Continued)

Analysis Batch: 28983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-33	FS46	Total/NA	Solid	8021B	28660
890-2462-34	FS48	Total/NA	Solid	8021B	28660
MB 880-28660/5-A	Method Blank	Total/NA	Solid	8021B	28660
LCS 880-28660/1-A	Lab Control Sample	Total/NA	Solid	8021B	28660
LCSD 880-28660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28660
890-2462-15 MS	FS16	Total/NA	Solid	8021B	28660
890-2462-15 MSD	FS16	Total/NA	Solid	8021B	28660

Analysis Batch: 28985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-5	FS22	Total/NA	Solid	8021B	29033
890-2462-6	FS26	Total/NA	Solid	8021B	29033
890-2462-7	FS23	Total/NA	Solid	8021B	29033
890-2462-8	FS21	Total/NA	Solid	8021B	29033
890-2462-9	FS24	Total/NA	Solid	8021B	29033
890-2462-10	FS13A	Total/NA	Solid	8021B	29033
890-2462-11	FS06	Total/NA	Solid	8021B	29033
890-2462-12	FS25	Total/NA	Solid	8021B	29033
890-2462-13	FS08	Total/NA	Solid	8021B	29033
890-2462-14	FS17	Total/NA	Solid	8021B	29033
MB 880-29033/5-A	Method Blank	Total/NA	Solid	8021B	29033
LCS 880-29033/1-A	Lab Control Sample	Total/NA	Solid	8021B	29033
LCSD 880-29033/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29033
890-2462-5 MS	FS22	Total/NA	Solid	8021B	29033
890-2462-5 MSD	FS22	Total/NA	Solid	8021B	29033

Prep Batch: 29033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-5	FS22	Total/NA	Solid	5035	
890-2462-6	FS26	Total/NA	Solid	5035	
890-2462-7	FS23	Total/NA	Solid	5035	
890-2462-8	FS21	Total/NA	Solid	5035	
890-2462-9	FS24	Total/NA	Solid	5035	
890-2462-10	FS13A	Total/NA	Solid	5035	
890-2462-11	FS06	Total/NA	Solid	5035	
890-2462-12	FS25	Total/NA	Solid	5035	
890-2462-13	FS08	Total/NA	Solid	5035	
890-2462-14	FS17	Total/NA	Solid	5035	
MB 880-29033/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29033/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29033/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2462-5 MS	FS22	Total/NA	Solid	5035	
890-2462-5 MSD	FS22	Total/NA	Solid	5035	

Prep Batch: 29048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29048/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 29103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-35	FS43	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC VOA (Continued)

Prep Batch: 29103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-36	FS45	Total/NA	Solid	5035	
890-2462-37	FS47	Total/NA	Solid	5035	
890-2462-38	FS42	Total/NA	Solid	5035	
MB 880-29103/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29103/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29103/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2497-A-28-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2497-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-35	FS43	Total/NA	Solid	8021B	29103
890-2462-36	FS45	Total/NA	Solid	8021B	29103
890-2462-37	FS47	Total/NA	Solid	8021B	29103
890-2462-38	FS42	Total/NA	Solid	8021B	29103
MB 880-29048/5-A	Method Blank	Total/NA	Solid	8021B	29048
MB 880-29103/5-A	Method Blank	Total/NA	Solid	8021B	29103
LCS 880-29103/1-A	Lab Control Sample	Total/NA	Solid	8021B	29103
LCSD 880-29103/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29103
890-2497-A-28-D MS	Matrix Spike	Total/NA	Solid	8021B	29103
890-2497-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29103

GC Semi VOA

Prep Batch: 28504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	8015NM Prep	
890-2462-2	FS09A	Total/NA	Solid	8015NM Prep	
890-2462-3	FS12A	Total/NA	Solid	8015NM Prep	
890-2462-4	FS10	Total/NA	Solid	8015NM Prep	
890-2462-5	FS22	Total/NA	Solid	8015NM Prep	
890-2462-6	FS26	Total/NA	Solid	8015NM Prep	
890-2462-7	FS23	Total/NA	Solid	8015NM Prep	
890-2462-8	FS21	Total/NA	Solid	8015NM Prep	
890-2462-9	FS24	Total/NA	Solid	8015NM Prep	
890-2462-10	FS13A	Total/NA	Solid	8015NM Prep	
890-2462-11	FS06	Total/NA	Solid	8015NM Prep	
890-2462-12	FS25	Total/NA	Solid	8015NM Prep	
890-2462-13	FS08	Total/NA	Solid	8015NM Prep	
890-2462-14	FS17	Total/NA	Solid	8015NM Prep	
890-2462-15	FS16	Total/NA	Solid	8015NM Prep	
890-2462-16	FS15	Total/NA	Solid	8015NM Prep	
890-2462-17	FS18	Total/NA	Solid	8015NM Prep	
890-2462-18	FS19	Total/NA	Solid	8015NM Prep	
890-2462-19	FS14	Total/NA	Solid	8015NM Prep	
890-2462-20	FS20	Total/NA	Solid	8015NM Prep	
MB 880-28504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2462-1 MS	FS11	Total/NA	Solid	8015NM Prep	
890-2462-1 MSD	FS11	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC Semi VOA

Prep Batch: 28505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-21	FS24	Total/NA	Solid	8015NM Prep	
890-2462-22	FS03	Total/NA	Solid	8015NM Prep	
890-2462-23	SW02	Total/NA	Solid	8015NM Prep	
890-2462-24	FS31	Total/NA	Solid	8015NM Prep	
890-2462-25	FS30	Total/NA	Solid	8015NM Prep	
890-2462-26	FS33	Total/NA	Solid	8015NM Prep	
890-2462-27	FS41	Total/NA	Solid	8015NM Prep	
890-2462-28	FS36	Total/NA	Solid	8015NM Prep	
890-2462-29	FS23	Total/NA	Solid	8015NM Prep	
890-2462-30	FS28	Total/NA	Solid	8015NM Prep	
890-2462-31	FS49	Total/NA	Solid	8015NM Prep	
890-2462-32	FS44	Total/NA	Solid	8015NM Prep	
890-2462-33	FS46	Total/NA	Solid	8015NM Prep	
890-2462-34	FS48	Total/NA	Solid	8015NM Prep	
890-2462-35	FS43	Total/NA	Solid	8015NM Prep	
890-2462-36	FS45	Total/NA	Solid	8015NM Prep	
890-2462-37	FS47	Total/NA	Solid	8015NM Prep	
890-2462-38	FS42	Total/NA	Solid	8015NM Prep	
890-2462-39	FS50	Total/NA	Solid	8015NM Prep	
890-2462-40	FS01	Total/NA	Solid	8015NM Prep	
MB 880-28505/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28505/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2462-21 MS	FS24	Total/NA	Solid	8015NM Prep	
890-2462-21 MSD	FS24	Total/NA	Solid	8015NM Prep	

Prep Batch: 28506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-41	FS35	Total/NA	Solid	8015NM Prep	
890-2462-42	FS04	Total/NA	Solid	8015NM Prep	
890-2462-43	FS27	Total/NA	Solid	8015NM Prep	
890-2462-44	FS02	Total/NA	Solid	8015NM Prep	
890-2462-45	FS07	Total/NA	Solid	8015NM Prep	
890-2462-46	FS34	Total/NA	Solid	8015NM Prep	
890-2462-47	FS38	Total/NA	Solid	8015NM Prep	
890-2462-48	SW01	Total/NA	Solid	8015NM Prep	
MB 880-28506/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28506/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2467-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
890-2467-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	8015B NM	28504
890-2462-2	FS09A	Total/NA	Solid	8015B NM	28504
890-2462-3	FS12A	Total/NA	Solid	8015B NM	28504
890-2462-4	FS10	Total/NA	Solid	8015B NM	28504
890-2462-5	FS22	Total/NA	Solid	8015B NM	28504
890-2462-6	FS26	Total/NA	Solid	8015B NM	28504
890-2462-7	FS23	Total/NA	Solid	8015B NM	28504

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 28513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-8	FS21	Total/NA	Solid	8015B NM	28504
890-2462-9	FS24	Total/NA	Solid	8015B NM	28504
890-2462-10	FS13A	Total/NA	Solid	8015B NM	28504
890-2462-11	FS06	Total/NA	Solid	8015B NM	28504
890-2462-12	FS25	Total/NA	Solid	8015B NM	28504
890-2462-13	FS08	Total/NA	Solid	8015B NM	28504
890-2462-14	FS17	Total/NA	Solid	8015B NM	28504
890-2462-15	FS16	Total/NA	Solid	8015B NM	28504
890-2462-16	FS15	Total/NA	Solid	8015B NM	28504
890-2462-17	FS18	Total/NA	Solid	8015B NM	28504
890-2462-18	FS19	Total/NA	Solid	8015B NM	28504
890-2462-19	FS14	Total/NA	Solid	8015B NM	28504
890-2462-20	FS20	Total/NA	Solid	8015B NM	28504
MB 880-28504/1-A	Method Blank	Total/NA	Solid	8015B NM	28504
LCS 880-28504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28504
LCSD 880-28504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28504
890-2462-1 MS	FS11	Total/NA	Solid	8015B NM	28504
890-2462-1 MSD	FS11	Total/NA	Solid	8015B NM	28504

Analysis Batch: 28519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-21	FS24	Total/NA	Solid	8015B NM	28505
890-2462-22	FS03	Total/NA	Solid	8015B NM	28505
890-2462-23	SW02	Total/NA	Solid	8015B NM	28505
890-2462-24	FS31	Total/NA	Solid	8015B NM	28505
890-2462-25	FS30	Total/NA	Solid	8015B NM	28505
890-2462-26	FS33	Total/NA	Solid	8015B NM	28505
890-2462-27	FS41	Total/NA	Solid	8015B NM	28505
890-2462-28	FS36	Total/NA	Solid	8015B NM	28505
890-2462-29	FS23	Total/NA	Solid	8015B NM	28505
890-2462-30	FS28	Total/NA	Solid	8015B NM	28505
890-2462-31	FS49	Total/NA	Solid	8015B NM	28505
890-2462-32	FS44	Total/NA	Solid	8015B NM	28505
890-2462-33	FS46	Total/NA	Solid	8015B NM	28505
890-2462-34	FS48	Total/NA	Solid	8015B NM	28505
890-2462-35	FS43	Total/NA	Solid	8015B NM	28505
890-2462-36	FS45	Total/NA	Solid	8015B NM	28505
890-2462-37	FS47	Total/NA	Solid	8015B NM	28505
890-2462-38	FS42	Total/NA	Solid	8015B NM	28505
890-2462-39	FS50	Total/NA	Solid	8015B NM	28505
890-2462-40	FS01	Total/NA	Solid	8015B NM	28505
MB 880-28505/1-A	Method Blank	Total/NA	Solid	8015B NM	28505
LCS 880-28505/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28505
LCSD 880-28505/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28505
890-2462-21 MS	FS24	Total/NA	Solid	8015B NM	28505
890-2462-21 MSD	FS24	Total/NA	Solid	8015B NM	28505

Analysis Batch: 28522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-41	FS35	Total/NA	Solid	8015B NM	28506
890-2462-42	FS04	Total/NA	Solid	8015B NM	28506

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 28522 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-43	FS27	Total/NA	Solid	8015B NM	28506
890-2462-44	FS02	Total/NA	Solid	8015B NM	28506
890-2462-45	FS07	Total/NA	Solid	8015B NM	28506
890-2462-46	FS34	Total/NA	Solid	8015B NM	28506
890-2462-47	FS38	Total/NA	Solid	8015B NM	28506
890-2462-48	SW01	Total/NA	Solid	8015B NM	28506
890-2462-49	FS05	Total/NA	Solid	8015B NM	28577
890-2462-50	FS32	Total/NA	Solid	8015B NM	28577
MB 880-28506/1-A	Method Blank	Total/NA	Solid	8015B NM	28506
MB 880-28577/1-A	Method Blank	Total/NA	Solid	8015B NM	28577
LCS 880-28506/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28506
LCS 880-28577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28577
LCSD 880-28506/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28506
LCSD 880-28577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28577
880-16321-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	28577
880-16321-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28577
890-2467-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28506
890-2467-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	28506

Prep Batch: 28577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-49	FS05	Total/NA	Solid	8015NM Prep	
890-2462-50	FS32	Total/NA	Solid	8015NM Prep	
MB 880-28577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16321-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16321-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 28611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-51	FS40	Total/NA	Solid	8015NM Prep	
890-2462-52	FS39	Total/NA	Solid	8015NM Prep	
890-2462-53	FS37	Total/NA	Solid	8015NM Prep	
MB 880-28611/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28611/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28611/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2468-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2468-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Total/NA	Solid	8015 NM	
890-2462-2	FS09A	Total/NA	Solid	8015 NM	
890-2462-3	FS12A	Total/NA	Solid	8015 NM	
890-2462-4	FS10	Total/NA	Solid	8015 NM	
890-2462-5	FS22	Total/NA	Solid	8015 NM	
890-2462-6	FS26	Total/NA	Solid	8015 NM	
890-2462-7	FS23	Total/NA	Solid	8015 NM	
890-2462-8	FS21	Total/NA	Solid	8015 NM	
890-2462-9	FS24	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 28635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-10	FS13A	Total/NA	Solid	8015 NM	
890-2462-11	FS06	Total/NA	Solid	8015 NM	
890-2462-12	FS25	Total/NA	Solid	8015 NM	
890-2462-13	FS08	Total/NA	Solid	8015 NM	
890-2462-14	FS17	Total/NA	Solid	8015 NM	
890-2462-15	FS16	Total/NA	Solid	8015 NM	
890-2462-16	FS15	Total/NA	Solid	8015 NM	
890-2462-17	FS18	Total/NA	Solid	8015 NM	
890-2462-18	FS19	Total/NA	Solid	8015 NM	
890-2462-19	FS14	Total/NA	Solid	8015 NM	
890-2462-20	FS20	Total/NA	Solid	8015 NM	
890-2462-21	FS24	Total/NA	Solid	8015 NM	
890-2462-22	FS03	Total/NA	Solid	8015 NM	
890-2462-23	SW02	Total/NA	Solid	8015 NM	
890-2462-24	FS31	Total/NA	Solid	8015 NM	
890-2462-25	FS30	Total/NA	Solid	8015 NM	
890-2462-26	FS33	Total/NA	Solid	8015 NM	
890-2462-27	FS41	Total/NA	Solid	8015 NM	
890-2462-28	FS36	Total/NA	Solid	8015 NM	
890-2462-29	FS23	Total/NA	Solid	8015 NM	
890-2462-30	FS28	Total/NA	Solid	8015 NM	
890-2462-31	FS49	Total/NA	Solid	8015 NM	
890-2462-32	FS44	Total/NA	Solid	8015 NM	
890-2462-33	FS46	Total/NA	Solid	8015 NM	
890-2462-34	FS48	Total/NA	Solid	8015 NM	
890-2462-35	FS43	Total/NA	Solid	8015 NM	
890-2462-36	FS45	Total/NA	Solid	8015 NM	
890-2462-37	FS47	Total/NA	Solid	8015 NM	
890-2462-38	FS42	Total/NA	Solid	8015 NM	
890-2462-39	FS50	Total/NA	Solid	8015 NM	
890-2462-40	FS01	Total/NA	Solid	8015 NM	
890-2462-41	FS35	Total/NA	Solid	8015 NM	
890-2462-42	FS04	Total/NA	Solid	8015 NM	
890-2462-43	FS27	Total/NA	Solid	8015 NM	
890-2462-44	FS02	Total/NA	Solid	8015 NM	
890-2462-45	FS07	Total/NA	Solid	8015 NM	
890-2462-46	FS34	Total/NA	Solid	8015 NM	
890-2462-47	FS38	Total/NA	Solid	8015 NM	
890-2462-48	SW01	Total/NA	Solid	8015 NM	
890-2462-49	FS05	Total/NA	Solid	8015 NM	
890-2462-50	FS32	Total/NA	Solid	8015 NM	
890-2462-51	FS40	Total/NA	Solid	8015 NM	
890-2462-52	FS39	Total/NA	Solid	8015 NM	
890-2462-53	FS37	Total/NA	Solid	8015 NM	

Analysis Batch: 28717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-51	FS40	Total/NA	Solid	8015B NM	28611
890-2462-52	FS39	Total/NA	Solid	8015B NM	28611
890-2462-53	FS37	Total/NA	Solid	8015B NM	28611
MB 880-28611/1-A	Method Blank	Total/NA	Solid	8015B NM	28611

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

GC Semi VOA (Continued)

Analysis Batch: 28717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-28611/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28611
LCSD 880-28611/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28611
890-2468-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	28611
890-2468-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28611

HPLC/IC

Leach Batch: 28456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Soluble	Solid	DI Leach	
890-2462-2	FS09A	Soluble	Solid	DI Leach	
890-2462-3	FS12A	Soluble	Solid	DI Leach	
890-2462-4	FS10	Soluble	Solid	DI Leach	
890-2462-5	FS22	Soluble	Solid	DI Leach	
890-2462-6	FS26	Soluble	Solid	DI Leach	
890-2462-7	FS23	Soluble	Solid	DI Leach	
890-2462-8	FS21	Soluble	Solid	DI Leach	
890-2462-9	FS24	Soluble	Solid	DI Leach	
890-2462-10	FS13A	Soluble	Solid	DI Leach	
890-2462-11	FS06	Soluble	Solid	DI Leach	
890-2462-12	FS25	Soluble	Solid	DI Leach	
890-2462-13	FS08	Soluble	Solid	DI Leach	
890-2462-14	FS17	Soluble	Solid	DI Leach	
890-2462-15	FS16	Soluble	Solid	DI Leach	
890-2462-16	FS15	Soluble	Solid	DI Leach	
890-2462-17	FS18	Soluble	Solid	DI Leach	
890-2462-18	FS19	Soluble	Solid	DI Leach	
890-2462-19	FS14	Soluble	Solid	DI Leach	
890-2462-20	FS20	Soluble	Solid	DI Leach	
MB 880-28456/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28456/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28456/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2462-1 MS	FS11	Soluble	Solid	DI Leach	
890-2462-1 MSD	FS11	Soluble	Solid	DI Leach	
890-2462-11 MS	FS06	Soluble	Solid	DI Leach	
890-2462-11 MSD	FS06	Soluble	Solid	DI Leach	

Leach Batch: 28457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-21	FS24	Soluble	Solid	DI Leach	
890-2462-22	FS03	Soluble	Solid	DI Leach	
890-2462-23	SW02	Soluble	Solid	DI Leach	
890-2462-24	FS31	Soluble	Solid	DI Leach	
890-2462-25	FS30	Soluble	Solid	DI Leach	
890-2462-26	FS33	Soluble	Solid	DI Leach	
890-2462-27	FS41	Soluble	Solid	DI Leach	
890-2462-28	FS36	Soluble	Solid	DI Leach	
890-2462-29	FS23	Soluble	Solid	DI Leach	
890-2462-30	FS28	Soluble	Solid	DI Leach	
890-2462-31	FS49	Soluble	Solid	DI Leach	
890-2462-32	FS44	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

HPLC/IC (Continued)

Leach Batch: 28457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-33	FS46	Soluble	Solid	DI Leach	
890-2462-34	FS48	Soluble	Solid	DI Leach	
890-2462-35	FS43	Soluble	Solid	DI Leach	
890-2462-36	FS45	Soluble	Solid	DI Leach	
890-2462-37	FS47	Soluble	Solid	DI Leach	
890-2462-38	FS42	Soluble	Solid	DI Leach	
890-2462-39	FS50	Soluble	Solid	DI Leach	
890-2462-40	FS01	Soluble	Solid	DI Leach	
MB 880-28457/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28457/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28457/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2462-21 MS	FS24	Soluble	Solid	DI Leach	
890-2462-21 MSD	FS24	Soluble	Solid	DI Leach	
890-2462-31 MS	FS49	Soluble	Solid	DI Leach	
890-2462-31 MSD	FS49	Soluble	Solid	DI Leach	

Leach Batch: 28555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-41	FS35	Soluble	Solid	DI Leach	
890-2462-42	FS04	Soluble	Solid	DI Leach	
890-2462-43	FS27	Soluble	Solid	DI Leach	
890-2462-44	FS02	Soluble	Solid	DI Leach	
890-2462-45	FS07	Soluble	Solid	DI Leach	
890-2462-46	FS34	Soluble	Solid	DI Leach	
890-2462-47	FS38	Soluble	Solid	DI Leach	
890-2462-48	SW01	Soluble	Solid	DI Leach	
890-2462-49	FS05	Soluble	Solid	DI Leach	
MB 880-28555/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28555/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28555/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2462-41 MS	FS35	Soluble	Solid	DI Leach	
890-2462-41 MSD	FS35	Soluble	Solid	DI Leach	

Leach Batch: 28556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-50	FS32	Soluble	Solid	DI Leach	
890-2462-51	FS40	Soluble	Solid	DI Leach	
890-2462-52	FS39	Soluble	Solid	DI Leach	
890-2462-53	FS37	Soluble	Solid	DI Leach	
MB 880-28556/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28556/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28556/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2462-52 MS	FS39	Soluble	Solid	DI Leach	
890-2462-52 MSD	FS39	Soluble	Solid	DI Leach	

Analysis Batch: 28863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-1	FS11	Soluble	Solid	300.0	28456
890-2462-2	FS09A	Soluble	Solid	300.0	28456
890-2462-3	FS12A	Soluble	Solid	300.0	28456
890-2462-4	FS10	Soluble	Solid	300.0	28456

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

HPLC/IC (Continued)

Analysis Batch: 28863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-5	FS22	Soluble	Solid	300.0	28456
890-2462-6	FS26	Soluble	Solid	300.0	28456
890-2462-7	FS23	Soluble	Solid	300.0	28456
890-2462-8	FS21	Soluble	Solid	300.0	28456
890-2462-9	FS24	Soluble	Solid	300.0	28456
890-2462-10	FS13A	Soluble	Solid	300.0	28456
890-2462-11	FS06	Soluble	Solid	300.0	28456
890-2462-12	FS25	Soluble	Solid	300.0	28456
890-2462-13	FS08	Soluble	Solid	300.0	28456
890-2462-14	FS17	Soluble	Solid	300.0	28456
890-2462-15	FS16	Soluble	Solid	300.0	28456
890-2462-16	FS15	Soluble	Solid	300.0	28456
890-2462-17	FS18	Soluble	Solid	300.0	28456
890-2462-18	FS19	Soluble	Solid	300.0	28456
890-2462-19	FS14	Soluble	Solid	300.0	28456
890-2462-20	FS20	Soluble	Solid	300.0	28456
MB 880-28456/1-A	Method Blank	Soluble	Solid	300.0	28456
LCS 880-28456/2-A	Lab Control Sample	Soluble	Solid	300.0	28456
LCSD 880-28456/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28456
890-2462-1 MS	FS11	Soluble	Solid	300.0	28456
890-2462-1 MSD	FS11	Soluble	Solid	300.0	28456
890-2462-11 MS	FS06	Soluble	Solid	300.0	28456
890-2462-11 MSD	FS06	Soluble	Solid	300.0	28456

Analysis Batch: 28868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-21	FS24	Soluble	Solid	300.0	28457
890-2462-22	FS03	Soluble	Solid	300.0	28457
890-2462-23	SW02	Soluble	Solid	300.0	28457
890-2462-24	FS31	Soluble	Solid	300.0	28457
890-2462-25	FS30	Soluble	Solid	300.0	28457
890-2462-26	FS33	Soluble	Solid	300.0	28457
890-2462-27	FS41	Soluble	Solid	300.0	28457
890-2462-28	FS36	Soluble	Solid	300.0	28457
890-2462-29	FS23	Soluble	Solid	300.0	28457
890-2462-30	FS28	Soluble	Solid	300.0	28457
890-2462-31	FS49	Soluble	Solid	300.0	28457
890-2462-32	FS44	Soluble	Solid	300.0	28457
890-2462-33	FS46	Soluble	Solid	300.0	28457
890-2462-34	FS48	Soluble	Solid	300.0	28457
890-2462-35	FS43	Soluble	Solid	300.0	28457
890-2462-36	FS45	Soluble	Solid	300.0	28457
890-2462-37	FS47	Soluble	Solid	300.0	28457
890-2462-38	FS42	Soluble	Solid	300.0	28457
890-2462-39	FS50	Soluble	Solid	300.0	28457
890-2462-40	FS01	Soluble	Solid	300.0	28457
MB 880-28457/1-A	Method Blank	Soluble	Solid	300.0	28457
LCS 880-28457/2-A	Lab Control Sample	Soluble	Solid	300.0	28457
LCSD 880-28457/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28457
890-2462-21 MS	FS24	Soluble	Solid	300.0	28457
890-2462-21 MSD	FS24	Soluble	Solid	300.0	28457

QC Association Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

HPLC/IC (Continued)

Analysis Batch: 28868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-31 MS	FS49	Soluble	Solid	300.0	28457
890-2462-31 MSD	FS49	Soluble	Solid	300.0	28457

Analysis Batch: 28884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-50	FS32	Soluble	Solid	300.0	28556
890-2462-51	FS40	Soluble	Solid	300.0	28556
890-2462-52	FS39	Soluble	Solid	300.0	28556
890-2462-53	FS37	Soluble	Solid	300.0	28556
MB 880-28556/1-A	Method Blank	Soluble	Solid	300.0	28556
LCS 880-28556/2-A	Lab Control Sample	Soluble	Solid	300.0	28556
LCSD 880-28556/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28556
890-2462-52 MS	FS39	Soluble	Solid	300.0	28556
890-2462-52 MSD	FS39	Soluble	Solid	300.0	28556

Analysis Batch: 28977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2462-41	FS35	Soluble	Solid	300.0	28555
890-2462-42	FS04	Soluble	Solid	300.0	28555
890-2462-43	FS27	Soluble	Solid	300.0	28555
890-2462-44	FS02	Soluble	Solid	300.0	28555
890-2462-45	FS07	Soluble	Solid	300.0	28555
890-2462-46	FS34	Soluble	Solid	300.0	28555
890-2462-47	FS38	Soluble	Solid	300.0	28555
890-2462-48	SW01	Soluble	Solid	300.0	28555
890-2462-49	FS05	Soluble	Solid	300.0	28555
MB 880-28555/1-A	Method Blank	Soluble	Solid	300.0	28555
LCS 880-28555/2-A	Lab Control Sample	Soluble	Solid	300.0	28555
LCSD 880-28555/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28555
890-2462-41 MS	FS35	Soluble	Solid	300.0	28555
890-2462-41 MSD	FS35	Soluble	Solid	300.0	28555

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS11
Date Collected: 06/21/22 11:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28545	06/28/22 13:09	EL	XEN MID
Total/NA	Analysis	8021B		1			28968	07/03/22 21:02	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 12:49	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 20:01	CH	XEN MID

Client Sample ID: FS09A
Date Collected: 06/21/22 15:45
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	28545	06/28/22 13:09	EL	XEN MID
Total/NA	Analysis	8021B		1			28968	07/03/22 21:28	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 13:53	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 20:24	CH	XEN MID

Client Sample ID: FS12A
Date Collected: 06/21/22 15:50
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28545	06/28/22 13:09	EL	XEN MID
Total/NA	Analysis	8021B		1			28968	07/03/22 21:54	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 14:14	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 20:32	CH	XEN MID

Client Sample ID: FS10
Date Collected: 06/21/22 11:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-4
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			4.99 g	5 mL	28545	06/28/22 13:09	EL	XEN MID
Total/NA	Analysis	8021B		1			28968	07/03/22 22:21	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS10
Date Collected: 06/21/22 11:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-4
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			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 14:36	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 20:40	CH	XEN MID

Client Sample ID: FS22
Date Collected: 06/21/22 12:50
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-5
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	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 15:18	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 14:57	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 20:48	CH	XEN MID

Client Sample ID: FS26
Date Collected: 06/21/22 13:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-6
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			5.01 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 15:44	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 15:19	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:12	CH	XEN MID

Client Sample ID: FS23
Date Collected: 06/21/22 13:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 16:10	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 15:40	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS23
Date Collected: 06/21/22 13:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:19	CH	XEN MID

Client Sample ID: FS21
Date Collected: 06/21/22 12:45
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-8
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			4.95 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 16:37	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 16:01	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:27	CH	XEN MID

Client Sample ID: FS24
Date Collected: 06/21/22 13:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-9
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			4.97 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 17:03	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 16:23	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:35	CH	XEN MID

Client Sample ID: FS13A
Date Collected: 06/21/22 16:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 17:29	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 16:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:43	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS06

Lab Sample ID: 890-2462-11

Date Collected: 06/21/22 15:10
Matrix: Solid
Date Received: 06/27/22 08:00

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	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 17:55	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 18:11	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 21:51	CH	XEN MID

Client Sample ID: FS25

Lab Sample ID: 890-2462-12

Date Collected: 06/21/22 13:10
Matrix: Solid
Date Received: 06/27/22 08:00

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	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 18:22	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 18:33	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 22:14	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-2462-13

Date Collected: 06/21/22 15:15
Matrix: Solid
Date Received: 06/27/22 08:00

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	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 18:48	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 18:54	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 22:22	CH	XEN MID

Client Sample ID: FS17

Lab Sample ID: 890-2462-14

Date Collected: 06/21/22 09:55
Matrix: Solid
Date Received: 06/27/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29033	07/05/22 13:16	EL	XEN MID
Total/NA	Analysis	8021B		1			28985	07/05/22 19:14	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS17
Date Collected: 06/21/22 09:55
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-14
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			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 19:16	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 22:46	CH	XEN MID

Client Sample ID: FS16
Date Collected: 06/21/22 10:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-15
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 15:21	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 19:37	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 22:54	CH	XEN MID

Client Sample ID: FS15
Date Collected: 06/21/22 10:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-16
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 15:41	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 19:59	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 23:01	CH	XEN MID

Client Sample ID: FS18
Date Collected: 06/21/22 10:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-17
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 16:02	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 20:21	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS18
Date Collected: 06/21/22 10:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 23:09	CH	XEN MID

Client Sample ID: FS19
Date Collected: 06/21/22 10:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 16:22	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 20:42	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 23:17	CH	XEN MID

Client Sample ID: FS14
Date Collected: 06/21/22 10:20
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-19
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 16:42	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 21:04	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 23:25	CH	XEN MID

Client Sample ID: FS20
Date Collected: 06/21/22 10:25
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-20
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 17:03	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28504	06/28/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28513	06/28/22 21:25	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28456	06/27/22 11:42	SMC	XEN MID
Soluble	Analysis	300.0		1			28863	07/02/22 23:33	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS24
Date Collected: 06/23/22 10:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-21
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 17:23	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 12:49	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 09:46	CH	XEN MID

Client Sample ID: FS03
Date Collected: 06/23/22 09:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-22
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 17:44	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/29/22 07:44	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 10:10	CH	XEN MID

Client Sample ID: SW02
Date Collected: 06/23/22 13:45
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-23
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 18:04	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/29/22 08:05	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		5			28868	07/03/22 10:18	CH	XEN MID

Client Sample ID: FS31
Date Collected: 06/23/22 10:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-24
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 18:25	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS31
Date Collected: 06/23/22 10:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-24
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			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 14:36	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 10:26	CH	XEN MID

Client Sample ID: FS30
Date Collected: 06/23/22 10:30
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 20:15	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 14:57	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 10:33	CH	XEN MID

Client Sample ID: FS33
Date Collected: 06/23/22 11:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-26
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 20:36	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 15:19	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 10:57	CH	XEN MID

Client Sample ID: FS41
Date Collected: 06/23/22 13:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-27
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 20:56	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 15:40	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS41
Date Collected: 06/23/22 13:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 11:05	CH	XEN MID

Client Sample ID: FS36
Date Collected: 06/23/22 11:20
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-28
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 21:17	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 16:01	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 11:13	CH	XEN MID

Client Sample ID: FS23
Date Collected: 06/23/22 09:30
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-29
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 21:37	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 16:23	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 11:20	CH	XEN MID

Client Sample ID: FS28
Date Collected: 06/23/22 09:25
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-30
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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 21:58	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 16:44	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 11:28	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS49

Date Collected: 06/23/22 15:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-31

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	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 22:18	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 18:11	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 11:36	CH	XEN MID

Client Sample ID: FS44

Date Collected: 06/23/22 14:45
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-32

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			4.95 g	5 mL	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 22:39	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 18:33	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:00	CH	XEN MID

Client Sample ID: FS46

Date Collected: 06/23/22 10:50
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-33

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			4.96 g	5 mL	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 22:59	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 18:54	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:08	CH	XEN MID

Client Sample ID: FS48

Date Collected: 06/23/22 15:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-34

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			4.96 g	5 mL	28660	06/29/22 12:27	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28983	07/05/22 23:20	SM	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS48
Date Collected: 06/23/22 15:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 19:16	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:31	CH	XEN MID

Client Sample ID: FS43
Date Collected: 06/23/22 14:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29103	07/06/22 08:22	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/07/22 07:01	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 19:37	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:39	CH	XEN MID

Client Sample ID: FS45
Date Collected: 06/23/22 14:50
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-36
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	29103	07/06/22 08:22	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/07/22 07:21	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 19:59	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:47	CH	XEN MID

Client Sample ID: FS47
Date Collected: 06/23/22 15:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-37
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	29103	07/06/22 08:22	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/07/22 07:41	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 20:21	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS47
Date Collected: 06/23/22 15:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-37
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			4.95 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 12:55	CH	XEN MID

Client Sample ID: FS42
Date Collected: 06/23/22 14:30
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29103	07/06/22 08:22	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/07/22 08:02	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 20:42	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 13:03	CH	XEN MID

Client Sample ID: FS50
Date Collected: 06/23/22 15:20
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-39
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	28678	06/29/22 15:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	06/30/22 19:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 21:04	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 13:10	CH	XEN MID

Client Sample ID: FS01
Date Collected: 06/23/22 12:55
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-40
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	28678	06/29/22 15:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	06/30/22 19:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28505	06/28/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28519	06/28/22 21:25	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28457	06/27/22 11:45	SMC	XEN MID
Soluble	Analysis	300.0		1			28868	07/03/22 13:18	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS35
Date Collected: 06/23/22 11:15
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-41
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	28678	06/29/22 15:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	06/30/22 19:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 19:45	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 17:58	CH	XEN MID

Client Sample ID: FS04
Date Collected: 06/23/22 12:30
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-42
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	28678	06/29/22 15:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	06/30/22 20:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 20:07	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 18:21	CH	XEN MID

Client Sample ID: FS27
Date Collected: 06/23/22 09:20
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-43
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	28678	06/29/22 15:01	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28710	06/30/22 20:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 20:28	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 18:29	CH	XEN MID

Client Sample ID: FS02
Date Collected: 06/23/22 12:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-44
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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 16:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS02
Date Collected: 06/23/22 12:05
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-44
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			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 20:49	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 18:37	CH	XEN MID

Client Sample ID: FS07
Date Collected: 06/23/22 12:40
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-45
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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 16:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 21:11	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 18:45	CH	XEN MID

Client Sample ID: FS34
Date Collected: 06/23/22 11:10
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-46
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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 17:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 21:32	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 19:08	CH	XEN MID

Client Sample ID: FS38
Date Collected: 06/23/22 11:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-47
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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 17:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 21:54	SM	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS38
Date Collected: 06/23/22 11:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 19:16	CH	XEN MID

Client Sample ID: SW01
Date Collected: 06/23/22 13:00
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 17:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28506	06/28/22 08:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/28/22 22:15	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 19:24	CH	XEN MID

Client Sample ID: FS05
Date Collected: 06/23/22 12:35
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-49
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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 18:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 07:03	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28555	06/28/22 14:50	SMC	XEN MID
Soluble	Analysis	300.0		1			28977	07/04/22 19:32	CH	XEN MID

Client Sample ID: FS32
Date Collected: 06/23/22 10:40
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 18:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 07:24	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28556	06/28/22 14:52	SMC	XEN MID
Soluble	Analysis	300.0		1			28884	07/03/22 20:17	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Client Sample ID: FS40

Date Collected: 06/23/22 13:08
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-51

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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 19:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28611	06/29/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28717	06/30/22 14:42	SM	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	28556	06/28/22 14:52	SMC	XEN MID
Soluble	Analysis	300.0		1			28884	07/03/22 20:24	CH	XEN MID

Client Sample ID: FS39

Date Collected: 06/23/22 11:40
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-52

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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 19:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28611	06/29/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28717	06/30/22 15:03	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28556	06/28/22 14:52	SMC	XEN MID
Soluble	Analysis	300.0		1			28884	07/03/22 20:32	CH	XEN MID

Client Sample ID: FS37

Date Collected: 06/23/22 11:30
Date Received: 06/27/22 08:00

Lab Sample ID: 890-2462-53

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	28677	06/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28709	06/30/22 19:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28831	07/01/22 10:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28635	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28611	06/29/22 08:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28717	06/30/22 15:25	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28556	06/28/22 14:52	SMC	XEN MID
Soluble	Analysis	300.0		1			28884	07/03/22 20:56	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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	T104704400-22-23	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 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 127H

Job ID: 890-2462-1
SDG: Eddy Co NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2462-1	FS11	Solid	06/21/22 11:05	06/27/22 08:00	0.5
890-2462-2	FS09A	Solid	06/21/22 15:45	06/27/22 08:00	1.5
890-2462-3	FS12A	Solid	06/21/22 15:50	06/27/22 08:00	1.5
890-2462-4	FS10	Solid	06/21/22 11:00	06/27/22 08:00	1.5
890-2462-5	FS22	Solid	06/21/22 12:50	06/27/22 08:00	0.5
890-2462-6	FS26	Solid	06/21/22 13:15	06/27/22 08:00	0.5
890-2462-7	FS23	Solid	06/21/22 13:00	06/27/22 08:00	0.5
890-2462-8	FS21	Solid	06/21/22 12:45	06/27/22 08:00	0.5
890-2462-9	FS24	Solid	06/21/22 13:05	06/27/22 08:00	0.5
890-2462-10	FS13A	Solid	06/21/22 16:00	06/27/22 08:00	1.5
890-2462-11	FS06	Solid	06/21/22 15:10	06/27/22 08:00	1.5
890-2462-12	FS25	Solid	06/21/22 13:10	06/27/22 08:00	0.5
890-2462-13	FS08	Solid	06/21/22 15:15	06/27/22 08:00	1.5
890-2462-14	FS17	Solid	06/21/22 09:55	06/27/22 08:00	0.5
890-2462-15	FS16	Solid	06/21/22 10:00	06/27/22 08:00	0.5
890-2462-16	FS15	Solid	06/21/22 10:05	06/27/22 08:00	0.5
890-2462-17	FS18	Solid	06/21/22 10:10	06/27/22 08:00	0.5
890-2462-18	FS19	Solid	06/21/22 10:15	06/27/22 08:00	0.5
890-2462-19	FS14	Solid	06/21/22 10:20	06/27/22 08:00	0.5
890-2462-20	FS20	Solid	06/21/22 10:25	06/27/22 08:00	0.5
890-2462-21	FS24	Solid	06/23/22 10:00	06/27/22 08:00	0.5
890-2462-22	FS03	Solid	06/23/22 09:10	06/27/22 08:00	2
890-2462-23	SW02	Solid	06/23/22 13:45	06/27/22 08:00	0 - 2
890-2462-24	FS31	Solid	06/23/22 10:35	06/27/22 08:00	0.5
890-2462-25	FS30	Solid	06/23/22 10:30	06/27/22 08:00	0.5
890-2462-26	FS33	Solid	06/23/22 11:00	06/27/22 08:00	0.5
890-2462-27	FS41	Solid	06/23/22 13:15	06/27/22 08:00	0.5
890-2462-28	FS36	Solid	06/23/22 11:20	06/27/22 08:00	0.5
890-2462-29	FS23	Solid	06/23/22 09:30	06/27/22 08:00	1
890-2462-30	FS28	Solid	06/23/22 09:25	06/27/22 08:00	0.5
890-2462-31	FS49	Solid	06/23/22 15:15	06/27/22 08:00	0.5
890-2462-32	FS44	Solid	06/23/22 14:45	06/27/22 08:00	0.5
890-2462-33	FS46	Solid	06/23/22 10:50	06/27/22 08:00	0.5
890-2462-34	FS48	Solid	06/23/22 15:10	06/27/22 08:00	0.5
890-2462-35	FS43	Solid	06/23/22 14:35	06/27/22 08:00	0.5
890-2462-36	FS45	Solid	06/23/22 14:50	06/27/22 08:00	0.5
890-2462-37	FS47	Solid	06/23/22 15:05	06/27/22 08:00	0.5
890-2462-38	FS42	Solid	06/23/22 14:30	06/27/22 08:00	0.5
890-2462-39	FS50	Solid	06/23/22 15:20	06/27/22 08:00	0.5
890-2462-40	FS01	Solid	06/23/22 12:55	06/27/22 08:00	4
890-2462-41	FS35	Solid	06/23/22 11:15	06/27/22 08:00	0.5
890-2462-42	FS04	Solid	06/23/22 12:30	06/27/22 08:00	1.5
890-2462-43	FS27	Solid	06/23/22 09:20	06/27/22 08:00	0.5
890-2462-44	FS02	Solid	06/23/22 12:05	06/27/22 08:00	2.5
890-2462-45	FS07	Solid	06/23/22 12:40	06/27/22 08:00	1.5
890-2462-46	FS34	Solid	06/23/22 11:10	06/27/22 08:00	0.5
890-2462-47	FS38	Solid	06/23/22 11:35	06/27/22 08:00	0.5
890-2462-48	SW01	Solid	06/23/22 13:00	06/27/22 08:00	0 - 4
890-2462-49	FS05	Solid	06/23/22 12:35	06/27/22 08:00	1.5
890-2462-50	FS32	Solid	06/23/22 10:40	06/27/22 08:00	0.5
890-2462-51	FS40	Solid	06/23/22 13:08	06/27/22 08:00	0.5
890-2462-52	FS39	Solid	06/23/22 11:40	06/27/22 08:00	0.5
890-2462-53	FS37	Solid	06/23/22 11:30	06/27/22 08:00	0.5

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 5

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	3122 National parks Hwy	Company Name:	XTO Energy
Address:	Ensdum	Address:	
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	337-257-8307	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 127H	Turn Around	
Project Number:	03E1558055	☑ Routine ☐ Rush	
Project Location:	Eddy Co. NM	Due Date:	
Sampler's Name:	LC/CB	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TVM-005	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.2	
Total Containers:		Corrected Temperature:	5.0	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
NaHSO 4: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHL (300 ePA)	TPH (EPA 8015)	BTX (EPA 8021)	Sample Comments
FS 11	S	6-21-22	1105	.5	C	1		X			Inc ED
FS 09A	S	6-21-22	1545	1.5	C	1		X			NAPP2201143304
FS 12A	S	6-21-22	1550	1.5	C	1					
FS 10	S	6-21-22	1100	1.5	C	1					
FS 22	S	6-21-22	1250	.5	C	1					AFE
FS 26	S	6-21-22	1315	.5	C	1					PD.2020.05398.CAP
FS 23	S	6-21-22	1300	.5	C	1					DR1.01
FS 21	S	6-21-22	1245	.5	C	1					
FS 24	S	6-21-22	1305	.5	C	1					
FS 13A	S	6-21-22	1600	1.5	C	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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Clay Capp	6.27.22 0800			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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 2 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:		☐ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No		Thermometer ID:	
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
FS 06	S	6-21-22	1510	1.5	C	1	
FS 25	S	6-21-22	1310	.5	C	1	
FS 06	S	6-21-22	1515	1.5	C	1	
FS 17	S	6-21-22	0955	.5	C	1	
FS 16	S	6-21-22	1000	.5	C	1	
FS 15	S	6-21-22	1005	.5	C	1	
FS 18	S	6-21-22	1010	.5	C	1	
FS 19	S	6-21-22	1015	.5	C	1	
FS 14	S	6-21-22	1020	.5	C	1	
FS 20	S	6-21-22	1025	.5	C	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 Tl Sn U V Zn

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.27.22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:		Bill to: (If different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters	Sample Comments
FS24	S	6-23-22	1000	.5	C	1			
FS03	S	6-23-22	0910	2	C	1			
SW02	S	6-23-22	1345	0-2'	C	1			
FS31	S	6-23-22	1035	0.5	C	1			
FS30	S	6-23-22	1030	0.5	C	1			
FS33	S	6-23-22	1100	.5	C	1			
FS41	S	6-23-22	1315	.5	C	1			
FS36	S	6-23-22	1120	.5	C	1			
FS23	S	6-23-22	0930	1	C	1			
FS28	S	6-23-22	925	.5	C	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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.27.22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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 4 of 5

Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTX (EPA 8021)	CHL (EPA 300)	TPH (EPA 8015)	Sample Comments
FS49	S	1515	6-23-22	.5	C	1		X	X	X	
FS44	S	1445	6-23-22	.5	C	1		X	X	X	
FS46	S	1500	6-23-22	.5	C	1		X	X	X	
FS48	S	6-23-22	1510	.5	C	1		X	X	X	
FS43	S	6-23-22	1435	.5	C	1		X	X	X	
FS45	S	6-23-22	1450	.5	C	1		X	X	X	
FS47	S	6-23-22	1505	.5	C	1		X	X	X	
FS42	S	6-23-22	1430	.5	C	1		X	X	X	
~~FS50~~	S	6-23-22	1520	.5	C	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6-27-22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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: _____

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Project Manager:		Bill to: (if different)	
Company Name:		Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:		☐Routine ☐Rush	
Project Location:		Due Date:	
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	R 3	
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
FS01	S	6-15-22	1255	4'	C	1	
FS35	S		1115	.5'	C	1	
FS04	S		1230	1.5'	C	1	
FS27	S		0920	.5'	C	1	
FS02	S		1205	2.5'	C	1	
FS07	S		1240	1.5'	C	1	
FS34	S		1110	.5'	C	1	
FS38	S		1135	.5'	C	1	
SW01	S		1300	0-4'	C	1	
FS05	S	↓	1235	1.5'	C	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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6.27.22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2462-1
SDG Number: Eddy Co NM

Login Number: 2462
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2462-1
SDG Number: Eddy Co NM

Login Number: 2462
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/27/22 05:47 PM

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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2462-1
SDG Number: Eddy Co NM

Login Number: 2462
List Number: 3
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/28/22 02:59 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2556-1
Laboratory Sample Delivery Group: 03E1558055
Client Project/Site: PLU 28 Big Sink 127H
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
7/21/2022 2:55:13 PM

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

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

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

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Laboratory Job ID: 890-2556-1
SDG: 03E1558055

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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 Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Job ID: 890-2556-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2556-1

REVISION

The report being provided is a revision of the original report sent on 7/14/2022. The report (revision 1) is being revised due to Per client email, updated sample depths..

Report revision history

Receipt
The samples were received on 7/13/2022 1:16 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 2.0°C

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-29672 and analytical batch 880-29692 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC
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 Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: SW03A

Date Collected: 07/13/22 10:50
Date Received: 07/13/22 13:16
Sample Depth: 0 - 2

Lab Sample ID: 890-2556-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 16:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 16:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 16:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:40	07/14/22 16:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:40	07/14/22 16:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:40	07/14/22 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:10*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/14/22 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/14/22 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:03*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**510**		5.03		mg/Kg			07/14/22 11:57	1

Client Sample ID: FS03A

Date Collected: 07/13/22 09:45
Date Received: 07/13/22 13:16
Sample Depth: 2.5

Lab Sample ID: 890-2556-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 16:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 16:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:30*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: FS03A
Date Collected: 07/13/22 09:45
Date Received: 07/13/22 13:16
Sample Depth: 2.5

Lab Sample ID: 890-2556-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/14/22 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/14/22 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:25*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.5**		5.03		mg/Kg			07/14/22 12:06	1

Client Sample ID: FS23A
Date Collected: 07/13/22 10:00
Date Received: 07/13/22 13:16
Sample Depth: 1

Lab Sample ID: 890-2556-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 16:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 16:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 16:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:40	07/14/22 16:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 16:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:40	07/14/22 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:51*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/22 09:40*	*07/14/22 16:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/14/22 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/14/22 15:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: FS23A
Date Collected: 07/13/22 10:00
Date Received: 07/13/22 13:16
Sample Depth: 1

Lab Sample ID: 890-2556-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:46*	*1*
o-Terphenyl	*88*		*70 - 130*	*07/13/22 15:06*	*07/14/22 13:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.1**		4.97		mg/Kg			07/14/22 12:15	1

Client Sample ID: FS25A
Date Collected: 07/13/22 10:20
Date Received: 07/13/22 13:16
Sample Depth: 1

Lab Sample ID: 890-2556-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 17:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 17:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 17:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:40	07/14/22 17:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:40	07/14/22 17:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:40	07/14/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/14/22 09:40*	*07/14/22 17:11*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/14/22 09:40*	*07/14/22 17:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/14/22 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/14/22 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		07/13/22 15:06	07/14/22 14:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/13/22 15:06	07/14/22 14:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/13/22 15:06	07/14/22 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*07/13/22 15:06*	*07/14/22 14:07*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/13/22 15:06*	*07/14/22 14:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: FS25A
Date Collected: 07/13/22 10:20
Date Received: 07/13/22 13:16
Sample Depth: 1

Lab Sample ID: 890-2556-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		4.95		mg/Kg			07/14/22 12:25	1

Client Sample ID: FS45A
Date Collected: 07/13/22 09:30
Date Received: 07/13/22 13:16
Sample Depth: 1

Lab Sample ID: 890-2556-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 20:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 20:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 20:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 20:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 20:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:40	07/14/22 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/14/22 09:40*	*07/14/22 20:03*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*07/14/22 09:40*	*07/14/22 20:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/14/22 17:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/14/22 15:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 14:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 14:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/13/22 15:06*	*07/14/22 14:29*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/13/22 15:06*	*07/14/22 14:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.2		5.00		mg/Kg			07/14/22 12:34	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
820-4960-A-4-B MS	Matrix Spike	105	93
820-4960-A-4-C MSD	Matrix Spike Duplicate	101	97
890-2556-1	SW03A	103	94
890-2556-2	FS03A	112	97
890-2556-3	FS23A	111	97
890-2556-4	FS25A	106	97
890-2556-5	FS45A	105	95
LCS 880-29718/1-A	Lab Control Sample	104	97
LCSD 880-29718/2-A	Lab Control Sample Dup	99	101
MB 880-29718/5-A	Method Blank	96	98

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2547-A-50-D MS	Matrix Spike	86	89
890-2547-A-50-E MSD	Matrix Spike Duplicate	72	76
890-2556-1	SW03A	74	86
890-2556-2	FS03A	75	86
890-2556-3	FS23A	76	88
890-2556-4	FS25A	73	82
890-2556-5	FS45A	74	83
LCS 880-29672/2-A	Lab Control Sample	97	110
LCSD 880-29672/3-A	Lab Control Sample Dup	113	126
MB 880-29672/1-A	Method Blank	88	102

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29718/5-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29718

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:40	07/14/22 14:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:40	07/14/22 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/14/22 09:40*	*07/14/22 14:39*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/22 09:40*	*07/14/22 14:39*	*1*

Lab Sample ID: LCS 880-29718/1-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29718

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09627		mg/Kg		96	70 - 130		
Toluene			0.100	0.09427		mg/Kg		94	70 - 130		
Ethylbenzene			0.100	0.09312		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1936		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130		

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

Lab Sample ID: LCSD 880-29718/2-A
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29718

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09699		mg/Kg		97	70 - 130	1	35
Toluene			0.100	0.08826		mg/Kg		88	70 - 130	7	35
Ethylbenzene			0.100	0.08683		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1827		mg/Kg		91	70 - 130	6	35
o-Xylene			0.100	0.09774		mg/Kg		98	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 820-4960-A-4-B MS
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0998	0.07304		mg/Kg		73	70 - 130		
Toluene	<0.00199	U	0.0998	0.07765		mg/Kg		77	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

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

Lab Sample ID: 820-4960-A-4-B MS
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29718

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.07835		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1653		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09033		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 820-4960-A-4-C MSD
Matrix: Solid
Analysis Batch: 29747

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29718

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08430		mg/Kg		84	70 - 130	14	35
Toluene	<0.00199	U	0.100	0.07964		mg/Kg		78	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.07902		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1670		mg/Kg		83	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.08824		mg/Kg		88	70 - 130	2	35

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

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

Lab Sample ID: MB 880-29672/1-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29672

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 09:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 09:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/13/22 15:06	07/14/22 09:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/13/22 15:06*	*07/14/22 09:52*	*1*
o-Terphenyl	*102*		*70 - 130*	*07/13/22 15:06*	*07/14/22 09:52*	*1*

Lab Sample ID: LCS 880-29672/2-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29672

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	989.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	865.7		mg/Kg		87	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

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

Lab Sample ID: LCS 880-29672/2-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29672

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-29672/3-A
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29672

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1004		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1051		mg/Kg		105	70 - 130	19	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-2547-A-50-D MS
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1081		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	749.4		mg/Kg		75	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-2547-A-50-E MSD
Matrix: Solid
Analysis Batch: 29692

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29672

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	999	1289		mg/Kg		125	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	641.8	F1	mg/Kg		64	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	76		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29682/1-A
Matrix: Solid
Analysis Batch: 29691

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			07/13/22 18:10	1

Lab Sample ID: LCS 880-29682/2-A
Matrix: Solid
Analysis Batch: 29691

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.2		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-29682/3-A
Matrix: Solid
Analysis Batch: 29691

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-2547-A-51-E MS
Matrix: Solid
Analysis Batch: 29691

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	19.8		250	275.0		mg/Kg		102	90 - 110		

Lab Sample ID: 890-2547-A-51-F MSD
Matrix: Solid
Analysis Batch: 29691

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	19.8		250	274.9		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

GC VOA

Prep Batch: 29718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	5035	
890-2556-2	FS03A	Total/NA	Solid	5035	
890-2556-3	FS23A	Total/NA	Solid	5035	
890-2556-4	FS25A	Total/NA	Solid	5035	
890-2556-5	FS45A	Total/NA	Solid	5035	
MB 880-29718/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29718/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29718/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4960-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
820-4960-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	8021B	29718
890-2556-2	FS03A	Total/NA	Solid	8021B	29718
890-2556-3	FS23A	Total/NA	Solid	8021B	29718
890-2556-4	FS25A	Total/NA	Solid	8021B	29718
890-2556-5	FS45A	Total/NA	Solid	8021B	29718
MB 880-29718/5-A	Method Blank	Total/NA	Solid	8021B	29718
LCS 880-29718/1-A	Lab Control Sample	Total/NA	Solid	8021B	29718
LCSD 880-29718/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29718
820-4960-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	29718
820-4960-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29718

Analysis Batch: 29776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	Total BTEX	
890-2556-2	FS03A	Total/NA	Solid	Total BTEX	
890-2556-3	FS23A	Total/NA	Solid	Total BTEX	
890-2556-4	FS25A	Total/NA	Solid	Total BTEX	
890-2556-5	FS45A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 29672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	8015NM Prep	
890-2556-2	FS03A	Total/NA	Solid	8015NM Prep	
890-2556-3	FS23A	Total/NA	Solid	8015NM Prep	
890-2556-4	FS25A	Total/NA	Solid	8015NM Prep	
890-2556-5	FS45A	Total/NA	Solid	8015NM Prep	
MB 880-29672/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29672/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2547-A-50-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2547-A-50-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	8015B NM	29672
890-2556-2	FS03A	Total/NA	Solid	8015B NM	29672

QC Association Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

GC Semi VOA (Continued)

Analysis Batch: 29692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-3	FS23A	Total/NA	Solid	8015B NM	29672
890-2556-4	FS25A	Total/NA	Solid	8015B NM	29672
890-2556-5	FS45A	Total/NA	Solid	8015B NM	29672
MB 880-29672/1-A	Method Blank	Total/NA	Solid	8015B NM	29672
LCS 880-29672/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29672
LCSD 880-29672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29672
890-2547-A-50-D MS	Matrix Spike	Total/NA	Solid	8015B NM	29672
890-2547-A-50-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	29672

Analysis Batch: 29765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Total/NA	Solid	8015 NM	
890-2556-2	FS03A	Total/NA	Solid	8015 NM	
890-2556-3	FS23A	Total/NA	Solid	8015 NM	
890-2556-4	FS25A	Total/NA	Solid	8015 NM	
890-2556-5	FS45A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Soluble	Solid	DI Leach	
890-2556-2	FS03A	Soluble	Solid	DI Leach	
890-2556-3	FS23A	Soluble	Solid	DI Leach	
890-2556-4	FS25A	Soluble	Solid	DI Leach	
890-2556-5	FS45A	Soluble	Solid	DI Leach	
MB 880-29682/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29682/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29682/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2547-A-51-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2547-A-51-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 29691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2556-1	SW03A	Soluble	Solid	300.0	29682
890-2556-2	FS03A	Soluble	Solid	300.0	29682
890-2556-3	FS23A	Soluble	Solid	300.0	29682
890-2556-4	FS25A	Soluble	Solid	300.0	29682
890-2556-5	FS45A	Soluble	Solid	300.0	29682
MB 880-29682/1-A	Method Blank	Soluble	Solid	300.0	29682
LCS 880-29682/2-A	Lab Control Sample	Soluble	Solid	300.0	29682
LCSD 880-29682/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29682
890-2547-A-51-E MS	Matrix Spike	Soluble	Solid	300.0	29682
890-2547-A-51-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	29682

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: SW03A
Date Collected: 07/13/22 10:50
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 16:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29776	07/14/22 17:20	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29765	07/14/22 15:52	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 13:03	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29682	07/14/22 11:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29691	07/14/22 11:57	CH	XEN MID

Client Sample ID: FS03A
Date Collected: 07/13/22 09:45
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-2
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	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 16:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29776	07/14/22 17:20	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29765	07/14/22 15:52	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 13:25	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29682	07/14/22 11:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29691	07/14/22 12:06	CH	XEN MID

Client Sample ID: FS23A
Date Collected: 07/13/22 10:00
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-3
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			5.03 g	5 mL	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 16:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29776	07/14/22 17:20	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29765	07/14/22 15:52	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 13:46	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29682	07/14/22 11:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29691	07/14/22 12:15	CH	XEN MID

Client Sample ID: FS25A
Date Collected: 07/13/22 10:20
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 17:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29776	07/14/22 17:20	SM	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Client Sample ID: FS25A
Date Collected: 07/13/22 10:20
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-4
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			29765	07/14/22 15:52	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 14:07	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29682	07/14/22 11:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29691	07/14/22 12:25	CH	XEN MID

Client Sample ID: FS45A
Date Collected: 07/13/22 09:30
Date Received: 07/13/22 13:16

Lab Sample ID: 890-2556-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29718	07/14/22 09:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29747	07/14/22 20:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29776	07/14/22 17:20	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29765	07/14/22 15:52	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 14:29	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29682	07/14/22 11:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29691	07/14/22 12:34	CH	XEN MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 28 Big Sink 127H

Job ID: 890-2556-1
SDG: 03E1558055

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2556-1	SW03A	Solid	07/13/22 10:50	07/13/22 13:16	0 - 2
890-2556-2	FS03A	Solid	07/13/22 09:45	07/13/22 13:16	2.5
890-2556-3	FS23A	Solid	07/13/22 10:00	07/13/22 13:16	1
890-2556-4	FS25A	Solid	07/13/22 10:20	07/13/22 13:16	1
890-2556-5	FS45A	Solid	07/13/22 09:30	07/13/22 13:16	1

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Greene
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM, 88220
Phone:	337-257-8307	Email:	garrett.green@exxonmobile.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 02H	Turn Around	
Project Number:	03E155 8055	☐ Routine ☑ Rush	
Project Location:	Eddy County	Due Date:	24 HR
Sampler's Name:	CB	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		TNM-307
Cooler Custody Seals:	Yes No N/A	Correction Factor:		-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:		2.2
Total Containers:		Corrected Temperature:		2.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
NaHSO $_4$: NABIS
$Na_2S_2O_3$: NaSO $_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: CHLC	BTEX	TPH	Sample Comments
SW03A	S	7.13.22	1610	.5	C	1	X	X	X	INC ID
FS03A	S		0945	.5	C	1				NAPP2216143304
FS23A	S		1000	.5	C	1				
FS25A	S		1020	.5	C	1				
FS45A	S		0930	.5	C	1				

890-2556 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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7.13.22 1316			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2556-1
SDG Number: 03E1558055

Login Number: 2556
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2556-1
SDG Number: 03E1558055

Login Number: 2556
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/14/22 10:49 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	

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Aimee Cole
To: Tacoma Morrissey
Subject: FW: (Extension Approval) XTO - PLU 28 Big Sinks 127H (ROW 5) / NAPP2210143304
Date: Monday, June 27, 2022 10:48:36 AM
Attachments: image002.png
image003.png
image004.png
image005.png

For your records.
Thanks!

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Monday, June 27, 2022 8:45 AM
To: Green, Garrett J <garrett.green@exxonmobil.com>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Kalei Jennings <kjennings@ensolum.com>; Aimee Cole <acole@ensolum.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>
Subject: (Extension Approval) XTO - PLU 28 Big Sinks 127H (ROW 5) / NAPP2210143304

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2210143304**

Garrett,

Your request for an extension to **July 27th, 2022** 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
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Friday, June 24, 2022 11:39 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Kalei Jennings <kjennings@ensolum.com>; Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] XTO- Extension Request - PLU 28 Big Sinks 127H (ROW 5) / NAPP2210143304

All,

XTO is requesting an extension for the current deadline of June 27, 2022 for submitting a closure request required in 19.15.29.12.B.(1) NMAC at the PLU 28 Big Sinks 127H (ROW 5) (Incident Number NAPP2210143304). The release occurred on March 29, 2022, and initial assessment and excavation of the release has been completed. Excavation of impacted soil began June 9, 2022; however, operations along the pipeline right-of-way postponed additional excavation activities. In order to complete the excavation activities and submit a closure request, XTO is requesting a 30-day extension until July 27, 2022.

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

From: Aimee Cole
To: Tacoma Morrissey; Kalei Jennings
Subject: FW: XTO - Sampling Notification (week of 6/13/22 - 6/17/22) (updated)
Date: Monday, June 13, 2022 12:22:23 PM
Attachments: image001.png
image002.png
image003.png
image004.png

See below for your records.
Thanks!

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Baker, Adrian <adrian.baker@exxonmobil.com>
Sent: Monday, June 13, 2022 9:39 AM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>; Aimee Cole <acole@ensolum.com>
Subject: XTO - Sampling Notification (week of 6/13/22 - 6/17/22) (updated)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of June 13, 2022.

Monday, June 13th

- JRU 106/ nAPP2212344322

Tuesday, June 14th

- PLU South Frac Pond / nAPP2211150068
- JRU DI2 702H & 707H / nAPP2211654411 & nAPP2208349430
- JRU DI 1 – Liner Delineation / Release Date May 30, 2022

Wednesday, June 15th

- PLU Big Sinks 25 Battery / nAPP2213148421

th

Thursday, June 16

- PLU 28 Big Sinks 127H / nAPP2210143304

Friday, June 17th

- PLU 28 Big Sinks 127H / nAPP2210143304

Adrian Baker
Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

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

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

CONDITIONS

Action 129078

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 129078
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/23/2022