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	NAPP2204835360
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 32.25928 Longitude -103.83742
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Los Medanos	Site Type Tank Battery
Date Release Discovered 02/02/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
K	36	25S	30E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 9.57	Volume Recovered (bbls) 4.10
	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 Corrosion caused a leak on the bulk separator water dump line. Free fluids were recovered with a vacuum truck. A third-party contractor has been retained for remediation purposes.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

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.

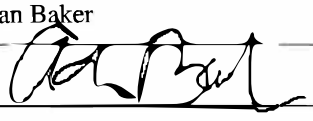
If all the actions described above have not been undertaken, explain why:

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: 2/17/22

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

OCD Only

Received by: Ramona Marcus Date: 2/18/2022

NAPP2204835360

Location:	Los Dos Medanos Battery	
Spill Date:	2/2/2022	
Area 1		
Approximate Area =	12085.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	2.69	bbls
Area 2		
Approximate Area =	624.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.88	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**9.57**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**4.10**	**bbls**

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 82304

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 82304
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/18/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2204835360
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	NAPP2204835360
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: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 05/03/2022

email: adrian.baker@exxonmobil.com Telephone: 432-263-3808

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2204835360
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Adrian Baker Title: Environmental Coordinator

Signature: Adrian Baker Date: 5-3-2022

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

OCD Only

Received by: Robert Hamlet Date: 6/27/2022

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

Signature: Robert Hamlet Date: 6/27/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2204835360
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: Garrett Green Title: Environmental Coordinator

Signature: Garrett Green Date: 09/25/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 12/14/2022

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: Jocelyn Harimon Date: 12/14/2022

Printed Name: Jocelyn Harimon Title: Environmental Specialist

ENSOLUM

September 25, 2022

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

Re: Closure Request
Los Medanos Tank Battery
Incident Number NAPP2204835360
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 Los Medanos Tank Battery (Site). The purpose of the excavation and soil sampling activities, in accordance with an approved Remediation Work Plan, was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action for Incident Number NAPP2204835360.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 36, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.25928° N, 103.83742°W) and is associated with oil and gas exploration and production operations on New Mexico state land managed by the State Land Office (SLO) (Figure 1).

On Feb 02, 2022, corrosion of the bulk separator water dump line resulted in the release of 9.57 barrels (bbls) of produced water onto the well pad and into the adjacent pasture where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 4.10 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 17, 2022. The release was assigned Incident Number NAPP2204835360.

On May 03, 2022, Ensolum submitted a Remediation Work Plan (Work Plan) to the NMOCD to confirm depth to water, excavate impacted soil, and request a variance for frequency of confirmation sampling. Approval of the Work Plan was received from the NMOCD on June 27, 2022 with the following conditions:

- Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 New Mexico Administrative Code (NMAC),
- A variance approved for 400 square feet floor confirmation samples. Sidewall confirmation samples should be collected every 200 sqaure feet,

- All off pad areas must contain a minimum of 4 feet of non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH, and
- The work will need to occur in 90 days after the work plan has been approved.

The following Closure Request summarizes implementation of the Work Plan.

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 NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Based on the results of the Site Characterization, detailed in the Work Plan, 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.

In an effort to confirm the depth to groundwater determination, on August 9, 2022, Ensolum personnel oversaw installation of a soil boring within 0.5 miles of the Site utilizing a truck-mounted air rotary rig. The soil boring (C-4646) was permitted by the New Mexico Office of the State Engineer (NMOSE) and was advanced to a depth of 103 feet bgs. An Ensolum geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Appendix A. The location of the borehole is approximately 0.45 miles southeast of the Site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. Based on the confirmed depth to water greater than 100 feet bgs, the Table 1 Closure Criteria assigned in the Work Plan are applicable and appropriate for protection of groundwater at this Site.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between August 9, 2022 and August 11, 2022, Ensolum personnel were at the Site to oversee excavation activities. The impacted soil was excavated from the release area as indicated by visible staining, laboratory analytical results for the preliminary soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using track-mounted backhoe and transport vehicle. The excavation occurred on pad and in the pasture area south of the pad. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The

excavation was completed to 4 feet bgs in the pasture and 1-foot bgs on the pad. Photographic documentation of the excavation activities is included in Appendix A.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and every 400 square feet from the floor of the excavation as per sampling variance in approval conditions above. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with 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.

Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation in the pasture from depths ranging from the ground surface to 4 feet bgs. Composite floor samples FS01 through FS03 were collected from the floor of the pasture excavation at a depth of 4 feet bgs. Composite floor samples FS04 through FS27 were collected from the floor of the on-pad excavation at a depth of 1 foot bgs. Due to the shallow depth of the excavation on pad, the sidewall material was included in the floor composite samples. The excavation extent and excavation soil sample locations are presented on Figure 2.

The excavation area on pad measured approximately 9,660 square feet and, in the pasture, measured approximately 875 square feet. A total of approximately 500 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 excavation sidewall samples SW01 through SW04 and excavation floor samples FS01 through FS27 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Excavation confirmation samples collected in the pasture were compliant with the reclamation standard. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site excavation activities were conducted at the Site to address the February 2, 2022, release of produced water. A soil boring advanced to 103 feet bgs was dry, confirming depth to groundwater is greater than 100 feet bgs. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standard in the pasture. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2204835360.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or aager@ensolum.com.

Sincerely,
Ensolum, LLC

Anita Thapalia
Project Geologist

Ashley Ager
Program Director

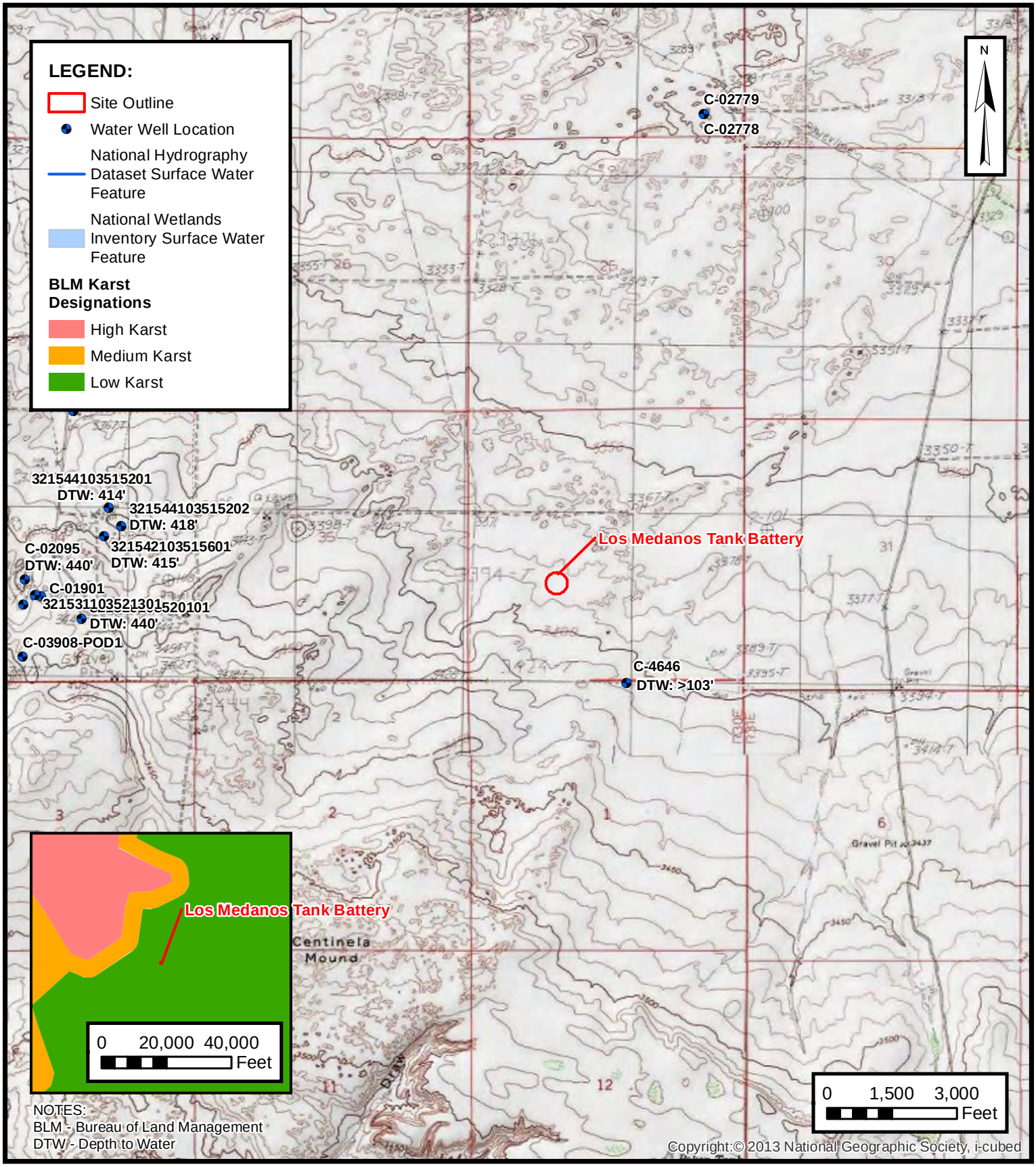
cc: Garrett Green, XTO
Shelby Pennington, XTO
State Land Office

Appendices:

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

ENSOLUM

FIGURES

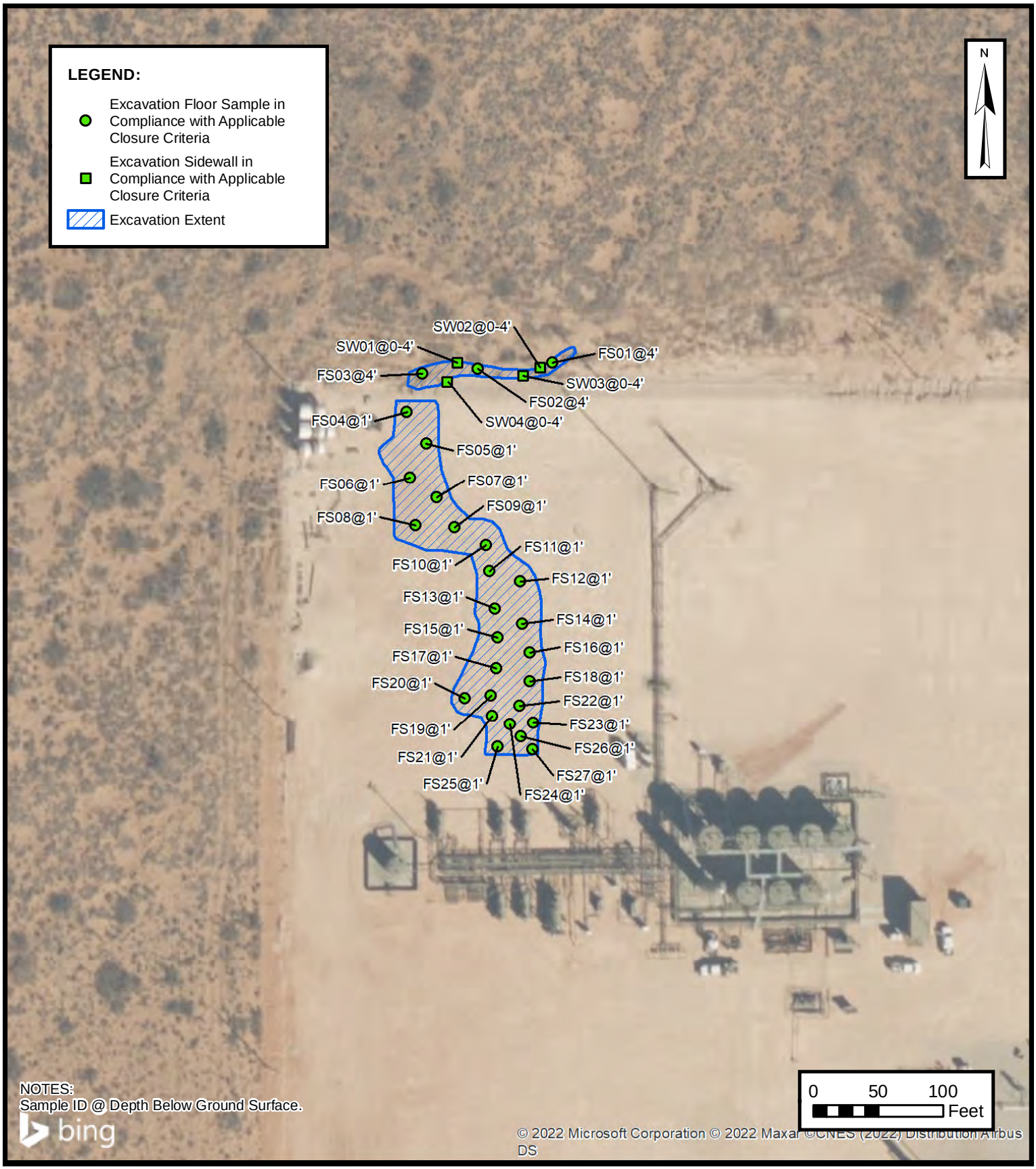


ENSOLUM
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
LOS MEDANOS TANK BATTERY
NAPP2204835360
Unit K, Sec 36, T25S, R30E
Eddy County, New Mexico

FIGURE
1



ENSOLUM
Environmental & Hydrogeologic Consultants

EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
LOS MEDANOS TANK BATTERY
NAPP2204835360
Unit K, Sec 36, T25S, R30E
Eddy County, New Mexicoc

FIGURE
2

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Los Medanos Tank Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples										
SW01	08/09/2022	0-4	<0.00199	<0.00398	<50.0	<50.0	84.2	84.2	84.2	10.6
SW02	08/09/2022	0-4	<0.00200	<0.00400	<49.9	<49.9	55.3	55.3	55.3	<5.01
SW03	08/09/2022	0-4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
SW04	08/09/2022	0-4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	20.8
FS01	08/10/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	88.8
FS02	08/10/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	291
FS03	08/10/2022	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	40.8
FS04	08/10/2022	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	65.4
FS05	08/10/2022	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	51.3
FS06	08/10/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	92.6
FS07	08/10/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	70.4
FS08	08/10/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	33.0
FS09	08/10/2022	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	46.4
FS10	08/10/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	39.7
FS11	08/11/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	74.8
FS12	08/11/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	214
FS13	08/11/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	217
FS14	08/11/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	261
FS15	08/11/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	89.1
FS16	08/11/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	163
FS17	08/11/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	35.9
FS18	08/11/2022	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	77.3
FS19	08/11/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	62.7
FS20	08/11/2022	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	72.6
FS21	08/11/2022	1	0.0149	0.677	<50.0	<50.0	<50.0	<50.0	<50.0	174
FS22	08/11/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	142
FS23	08/11/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	149

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Los Medanos Tank Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS24	08/11/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	109
FS25	08/11/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	885
FS26	08/11/2022	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	72.4
FS27	08/11/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	275

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

ENSOLUM

APPENDIX A

Referenced Well Records

ENSOLUM

Sample Name: C-4646-POD1	Date:08/08/2022	
Site Name: Los Medanos (007)		
Incident Number: nAPP2204835360		
Job Number: 03E1558007		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: GM	Method: HSA
Coordinates: 32.253930,-103.833200	Hole Diameter: 6"	Total Depth: 103'
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
A	–	–	N			0	SW	0-10, SAND, dry, well-graded, reddish-brown, very fine-fine grain, trace organics, No staining, No odor.
A	–	–	N			10		10-20, CALICHE, dry, white-tan, poorly-graded, very fine-fine grain, some reddish brown sand, No staining, No odor.
A	–	–	N			20		20-100, SANDSTONE, poorly graded, red, poorly consolidated, few grey reduction spots (<2mm), abundant laminations (<1mm), No staining, No odor.
A	–	–	N			30		@30', reddination spots reduced in size (<1mm).
A	–	–	N			40		@50', reduction spots reduced to trace amount, color change to darker red, trace crystalline laminations (<1mm) and grains
A	–	–	N			50		@60', laminations reduced to trace amount, reduction spots no longer present.
A	–	–	N			60		@70', trace amount of grey reduction spots (1-2 mm).
A	–	–	N			70		@90', few laminations (<1mm), reduction spots increase to little in abundance.
A	–	–	N			80		
A	–	–	N			90		
A	–	–	N			100		
							TD	Total depth @ 103'

ENSOLUM

APPENDIX B

Photographic Log

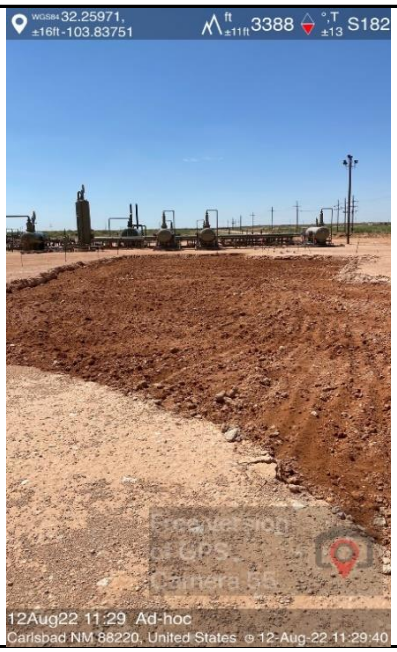
ENSOLUM

Photographic Log
XTO Energy, Inc.
Los Medanos Tank Battery
Incident Number NAPP2204835360

Photograph 1
Date: August 9, 2022
Description: Photo of depth to water drilling.

Photograph 2
Date: August 12, 2022
Description: View of pasture excavation, facing north.

Photograph 3
Date: August 12, 2022
Description: Photo of pad excavation, facing north.



Photograph 4
Date: August 12, 2022
Description: Excavation completed on pad view, facing south.

ENSOLUM

APPENDIX

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: 890-2736-1
Laboratory Sample Delivery Group: 03E1558007
Client Project/Site: Los Medanos

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
8/22/2022 2:18:47 PM

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

LINKS

Review your project results through my EOL

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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

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

Client: Ensolum
Project/Site: Los Medanos

Laboratory Job ID: 890-2736-1
SDG: 03E1558007

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2736-1
Project/Site: Los Medanos SDG: 03E1558007

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Job ID: 890-2736-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2736-1

Receipt
The samples were received on 8/10/2022 10:57 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32003 and analytical batch 880-31940 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (890-2732-A-1-B MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31853 and analytical batch 880-31943 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Client Sample ID: Sw01

Lab Sample ID: 890-2736-1
Matrix: Solid
Date Collected: 08/09/22 14:15
Date Received: 08/10/22 10:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		08/11/22 11:30	08/11/22 23:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/11/22 23:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/11/22 23:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/11/22 11:30	08/11/22 23:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/11/22 11:30	08/11/22 23:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/11/22 11:30	08/11/22 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:34*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/12/22 10:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**84.2**		50.0		mg/Kg			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/11/22 15:10	08/11/22 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/11/22 15:10	08/11/22 17:12	1
Oil Range Organics (Over C28-C36)	**84.2**		50.0		mg/Kg		08/11/22 15:10	08/11/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:12*	*1*
o-Terphenyl	*104*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		5.01		mg/Kg			08/12/22 00:33	1

Client Sample ID: SW02

Lab Sample ID: 890-2736-2
Matrix: Solid
Date Collected: 08/09/22 14:20
Date Received: 08/10/22 10:57

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:54*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Client Sample ID: SW02

Date Collected: 08/09/22 14:20
Date Received: 08/10/22 10:57

Lab Sample ID: 890-2736-2
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/12/22 10:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.3**		49.9		mg/Kg			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/11/22 15:10	08/11/22 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/11/22 15:10	08/11/22 17:34	1
Oil Range Organics (Over C28-C36)	**55.3**		49.9		mg/Kg		08/11/22 15:10	08/11/22 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:34*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/12/22 00:42	1

Client Sample ID: SW03

Date Collected: 08/09/22 14:25
Date Received: 08/10/22 10:57

Lab Sample ID: 890-2736-3
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		08/11/22 11:30	08/12/22 00:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 00:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 00:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 00:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/11/22 11:30	08/12/22 00:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/11/22 11:30	08/12/22 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:15*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:15*	*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			08/12/22 10:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/11/22 15:10	08/11/22 17:56	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Client Sample ID: SW03

Date Collected: 08/09/22 14:25
Date Received: 08/10/22 10:57

Lab Sample ID: 890-2736-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/11/22 15:10	08/11/22 17:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/11/22 15:10	08/11/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:56*	*1*
o-Terphenyl	*97*		*70 - 130*	*08/11/22 15:10*	*08/11/22 17:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/12/22 00:51	1

Client Sample ID: SW04

Date Collected: 08/09/22 14:30
Date Received: 08/10/22 10:57

Lab Sample ID: 890-2736-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/11/22 11:30	08/12/22 00:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/11/22 11:30	08/12/22 00:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/11/22 11:30	08/12/22 00:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/11/22 11:30	08/12/22 00:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/11/22 11:30	08/12/22 00:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/11/22 11:30	08/12/22 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:35*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*08/11/22 11:30*	*08/12/22 00:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/12/22 10:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/12/22 09:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/11/22 15:10	08/11/22 18:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/11/22 15:10	08/11/22 18:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/11/22 15:10	08/11/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/11/22 15:10*	*08/11/22 18:17*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/11/22 15:10*	*08/11/22 18:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.8**		4.97		mg/Kg			08/12/22 01:00	1

Surrogate Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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)
890-2736-1	Sw01	112	89
890-2736-1 MS	Sw01	128	97
890-2736-1 MSD	Sw01	120	86
890-2736-2	SW02	116	86
890-2736-3	SW03	118	88
890-2736-4	SW04	92	77
LCS 880-32003/1-A	Lab Control Sample	107	100
LCSD 880-32003/2-A	Lab Control Sample Dup	121	100
MB 880-31863/5-A	Method Blank	97	81
MB 880-32003/5-A	Method Blank	98	84

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)
890-2732-A-1-B MS	Matrix Spike	71	67 S1-
890-2732-A-1-C MSD	Matrix Spike Duplicate	73	71
890-2736-1	Sw01	91	104
890-2736-2	SW02	99	112
890-2736-3	SW03	84	97
890-2736-4	SW04	96	109
LCS 880-31853/2-A	Lab Control Sample	103	103
LCSD 880-31853/3-A	Lab Control Sample Dup	119	122
MB 880-31853/1-A	Method Blank	93	112

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31863/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31863

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 16:02	08/11/22 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 16:02	08/11/22 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*08/09/22 16:02*	*08/11/22 12:35*	*1*

Lab Sample ID: MB 880-32003/5-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/11/22 11:30	08/11/22 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/11/22 11:30	08/11/22 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*08/11/22 11:30*	*08/11/22 23:12*	*1*

Lab Sample ID: LCS 880-32003/1-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07932		mg/Kg		79	70 - 130		
Toluene			0.100	0.09050		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.09368		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1953		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1082		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-32003/2-A
Matrix: Solid
Analysis Batch: 31940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1007		mg/Kg		101	70 - 130	24	35

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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

Lab Sample ID: LCSD 880-32003/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09974		mg/Kg		100	70 - 130	10	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2294		mg/Kg		115	70 - 130	16	35
o-Xylene			0.100	0.1269		mg/Kg		127	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2736-1 MS — **Client Sample ID: Sw01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.101	0.08521		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.101	0.09050		mg/Kg		90	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1006		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2138		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.101	0.1176		mg/Kg		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-2736-1 MSD — **Client Sample ID: Sw01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31940 — **Prep Batch: 32003**

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	0.06978	F1	mg/Kg		69	70 - 130	20	35
Toluene	<0.00199	U	0.101	0.09112		mg/Kg		90	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.101	0.09830		mg/Kg		98	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2031		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.101	0.1115		mg/Kg		111	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

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

Lab Sample ID: MB 880-31853/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31943 — **Prep Batch: 31853**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-31853/1-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31853

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		08/09/22 15:10	08/11/22 10:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/22 15:10	08/11/22 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/09/22 15:10*	*08/11/22 10:17*	*1*

Lab Sample ID: LCS 880-31853/2-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	925.9		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	926.0		mg/Kg		93	70 - 130		

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

Lab Sample ID: LCSD 880-31853/3-A
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 31853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1030		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*122*		*70 - 130*

Lab Sample ID: 890-2732-A-1-B MS
Matrix: Solid
Analysis Batch: 31943

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 31853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	974.0		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	623.0	F1	mg/Kg		62	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*71*		*70 - 130*
o-Terphenyl	*67*	*S1-*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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

Lab Sample ID: 890-2732-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 31943 — **Prep Batch: 31853**

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	929.9		mg/Kg		91	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	668.7	F1	mg/Kg		67	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*73*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31949/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/11/22 22:24	1

Lab Sample ID: LCS 880-31949/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	236.9		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-31949/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			251	238.3		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-2736-4 MS — **Client Sample ID: SW04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.8		250	278.2		mg/Kg		103	90 - 110		

Lab Sample ID: 890-2736-4 MSD — **Client Sample ID: SW04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32041

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.8		251	277.0		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

GC VOA

Prep Batch: 31863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31863/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	8021B	32003
890-2736-2	SW02	Total/NA	Solid	8021B	32003
890-2736-3	SW03	Total/NA	Solid	8021B	32003
890-2736-4	SW04	Total/NA	Solid	8021B	32003
MB 880-31863/5-A	Method Blank	Total/NA	Solid	8021B	31863
MB 880-32003/5-A	Method Blank	Total/NA	Solid	8021B	32003
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	8021B	32003
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32003
890-2736-1 MS	Sw01	Total/NA	Solid	8021B	32003
890-2736-1 MSD	Sw01	Total/NA	Solid	8021B	32003

Prep Batch: 32003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	5035	
890-2736-2	SW02	Total/NA	Solid	5035	
890-2736-3	SW03	Total/NA	Solid	5035	
890-2736-4	SW04	Total/NA	Solid	5035	
MB 880-32003/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32003/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32003/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2736-1 MS	Sw01	Total/NA	Solid	5035	
890-2736-1 MSD	Sw01	Total/NA	Solid	5035	

Analysis Batch: 32087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	Total BTEX	
890-2736-2	SW02	Total/NA	Solid	Total BTEX	
890-2736-3	SW03	Total/NA	Solid	Total BTEX	
890-2736-4	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 31853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	8015NM Prep	
890-2736-2	SW02	Total/NA	Solid	8015NM Prep	
890-2736-3	SW03	Total/NA	Solid	8015NM Prep	
890-2736-4	SW04	Total/NA	Solid	8015NM Prep	
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	8015B NM	31853

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

GC Semi VOA (Continued)

Analysis Batch: 31943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-2	SW02	Total/NA	Solid	8015B NM	31853
890-2736-3	SW03	Total/NA	Solid	8015B NM	31853
890-2736-4	SW04	Total/NA	Solid	8015B NM	31853
MB 880-31853/1-A	Method Blank	Total/NA	Solid	8015B NM	31853
LCS 880-31853/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31853
LCSD 880-31853/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31853
890-2732-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31853
890-2732-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31853

Analysis Batch: 32059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Total/NA	Solid	8015 NM	
890-2736-2	SW02	Total/NA	Solid	8015 NM	
890-2736-3	SW03	Total/NA	Solid	8015 NM	
890-2736-4	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Soluble	Solid	DI Leach	
890-2736-2	SW02	Soluble	Solid	DI Leach	
890-2736-3	SW03	Soluble	Solid	DI Leach	
890-2736-4	SW04	Soluble	Solid	DI Leach	
MB 880-31949/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2736-4 MS	SW04	Soluble	Solid	DI Leach	
890-2736-4 MSD	SW04	Soluble	Solid	DI Leach	

Analysis Batch: 32041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2736-1	Sw01	Soluble	Solid	300.0	31949
890-2736-2	SW02	Soluble	Solid	300.0	31949
890-2736-3	SW03	Soluble	Solid	300.0	31949
890-2736-4	SW04	Soluble	Solid	300.0	31949
MB 880-31949/1-A	Method Blank	Soluble	Solid	300.0	31949
LCS 880-31949/2-A	Lab Control Sample	Soluble	Solid	300.0	31949
LCSD 880-31949/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31949
890-2736-4 MS	SW04	Soluble	Solid	300.0	31949
890-2736-4 MSD	SW04	Soluble	Solid	300.0	31949

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Client Sample ID: Sw01

Lab Sample ID: 890-2736-1
Matrix: Solid
Date Collected: 08/09/22 14:15
Date Received: 08/10/22 10:57

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	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/11/22 23:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32087	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32059	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 17:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 00:33	CH	EET MID

Client Sample ID: SW02

Lab Sample ID: 890-2736-2
Matrix: Solid
Date Collected: 08/09/22 14:20
Date Received: 08/10/22 10:57

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	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/11/22 23:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32087	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32059	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 17:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 00:42	CH	EET MID

Client Sample ID: SW03

Lab Sample ID: 890-2736-3
Matrix: Solid
Date Collected: 08/09/22 14:25
Date Received: 08/10/22 10:57

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	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 00:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32087	08/12/22 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			32059	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 17:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 00:51	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-2736-4
Matrix: Solid
Date Collected: 08/09/22 14:30
Date Received: 08/10/22 10:57

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	32003	08/11/22 11:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31940	08/12/22 00:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			32087	08/12/22 10:35	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Client Sample ID: SW04

Date Collected: 08/09/22 14:30
Date Received: 08/10/22 10:57

Lab Sample ID: 890-2736-4

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			32059	08/12/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31853	08/11/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			31943	08/11/22 18:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31949	08/11/22 09:02	AJ	EET MID
Soluble	Analysis	300.0		1			32041	08/12/22 01:00	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2736-1
SDG: 03E1558007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2736-1	Sw01	Solid	08/09/22 14:15	08/10/22 10:57
890-2736-2	SW02	Solid	08/09/22 14:20	08/10/22 10:57
890-2736-3	SW03	Solid	08/09/22 14:25	08/10/22 10:57
890-2736-4	SW04	Solid	08/09/22 14:30	08/10/22 10:57

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	337-257-5307	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:	Los Medanos	Turn Around	Pres. Code
Project Number:	03E1558007	☒ Routine ☐ Rush	
Project Location:	32.2592, -103.8374	Due Date:	
Sampler's Name:	Kyse 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:	Thm-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.8
Total Containers:		Corrected Temperature:	5.6

ANALYSIS REQUEST

Parameters: BTEX, TPH, Chlorides

890-2736 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
SW01	S	8/4/22	1415	0.4'			Incident #:
SW02			1420				NAPP2204835360
SW03			1425				
SW04			1430				CC: 204437001

KW

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	Amanda Salt	8/10/22 1057	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2736-1
SDG Number: 03E1558007

Login Number: 2736
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	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: 890-2736-1
SDG Number: 03E1558007

Login Number: 2736
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/11/22 12:13 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2740-1
Client Project/Site: Los Medynos

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

Attn: Tacoma Morrissey

JKRAMER

Authorized for release by:
8/24/2022 3:18:38 PM

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

Client: Ensolum
Project/Site: Los Medynos

Laboratory Job ID: 890-2740-1

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2740-1
Project/Site: Los Medynos

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Los Medynos

Job ID: 890-2740-1

Job ID: 890-2740-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2740-1

Receipt
The samples were received on 8/10/2022 4:09 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 24.5°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 880-32109 and analytical batch 880-32125 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Gasoline range hydrocarbons biased low in LCSD. Since only an acceptable LCS is required per the method, the data has been qualified and reported.(LCSD 880-32109/3-A)

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS10 (890-2740-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
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: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS01

Lab Sample ID: 890-2740-1
Matrix: Solid
Date Collected: 08/10/22 09:45
Date Received: 08/10/22 16:09
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 11:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 11:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 11:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/20/22 11:48	08/24/22 11:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 11:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/22 11:48	08/24/22 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:55*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 18:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 08:52	08/12/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/12/22 08:52*	*08/12/22 18:59*	*1*
o-Terphenyl	*91*		*70 - 130*	*08/12/22 08:52*	*08/12/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.8**		4.97		mg/Kg			08/16/22 10:34	1

Client Sample ID: FS02

Lab Sample ID: 890-2740-2
Matrix: Solid
Date Collected: 08/10/22 09:50
Date Received: 08/10/22 16:09
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		08/20/22 11:48	08/24/22 12:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 12:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 12:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/22 11:48	08/24/22 12:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 12:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/22 11:48	08/24/22 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS02

Lab Sample ID: 890-2740-2

Date Collected: 08/10/22 09:50
Matrix: Solid
Date Received: 08/10/22 16:09
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/15/22 10:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/12/22 08:52	08/12/22 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/12/22 08:52	08/12/22 19:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/12/22 08:52	08/12/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*08/12/22 08:52*	*08/12/22 19:21*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/12/22 08:52*	*08/12/22 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		5.01	mg/Kg			08/16/22 11:01	1

Client Sample ID: FS03

Lab Sample ID: 890-2740-3

Date Collected: 08/10/22 09:55
Matrix: Solid
Date Received: 08/10/22 16:09
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		08/20/22 11:48	08/24/22 12:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/22 11:48	08/24/22 12:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/22 11:48	08/24/22 12:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/20/22 11:48	08/24/22 12:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/20/22 11:48	08/24/22 12:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/20/22 11:48	08/24/22 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:36*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/15/22 10:31	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS03

Lab Sample ID: 890-2740-3
Matrix: Solid
Date Collected: 08/10/22 09:55
Date Received: 08/10/22 16:09
Sample Depth: 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	<49.8	U	49.8		mg/Kg		08/12/22 08:52	08/12/22 19:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 08:52	08/12/22 19:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 08:52	08/12/22 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/12/22 08:52*	*08/12/22 19:43*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/12/22 08:52*	*08/12/22 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.8**		5.01		mg/Kg			08/16/22 11:10	1

Client Sample ID: FS04

Lab Sample ID: 890-2740-4
Matrix: Solid
Date Collected: 08/10/22 10:00
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/20/22 11:48	08/24/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/20/22 11:48	08/24/22 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:56*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/20/22 11:48*	*08/24/22 12:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/22 10:31	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		08/12/22 08:52	08/12/22 20:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 08:52	08/12/22 20:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 08:52	08/12/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/12/22 08:52*	*08/12/22 20:04*	*1*
o-Terphenyl	*100*		*70 - 130*	*08/12/22 08:52*	*08/12/22 20:04*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS04

Lab Sample ID: 890-2740-4
Matrix: Solid
Date Collected: 08/10/22 10:00
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.4		4.99		mg/Kg			08/16/22 11:38	1

Client Sample ID: FS05

Lab Sample ID: 890-2740-5
Matrix: Solid
Date Collected: 08/10/22 10:05
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 13:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 13:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 13:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/20/22 11:48	08/24/22 13:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 13:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/20/22 11:48	08/24/22 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:17*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/15/22 10:31	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		08/12/22 14:26	08/13/22 05:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/22 14:26	08/13/22 05:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/22 14:26	08/13/22 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*08/12/22 14:26*	*08/13/22 05:46*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/12/22 14:26*	*08/13/22 05:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		5.00		mg/Kg			08/16/22 11:47	1

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS06

Lab Sample ID: 890-2740-6
Matrix: Solid
Date Collected: 08/10/22 11:20
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 13:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 13:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/20/22 11:48	08/24/22 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 13:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/20/22 11:48	08/24/22 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:37*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:37*	*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			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	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		08/12/22 15:08	08/15/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/12/22 15:08*	*08/15/22 14:35*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/12/22 15:08*	*08/15/22 14:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.6**		5.00		mg/Kg			08/16/22 11:56	1

Client Sample ID: FS07

Lab Sample ID: 890-2740-7
Matrix: Solid
Date Collected: 08/10/22 11:25
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 13:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 13:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 13:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/22 11:48	08/24/22 13:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/22 11:48	08/24/22 13:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/22 11:48	08/24/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS07

Lab Sample ID: 890-2740-7

Date Collected: 08/10/22 11:25
Matrix: Solid
Date Received: 08/10/22 16:09
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/20/22 11:48*	*08/24/22 13:58*	*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			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	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		08/12/22 15:08	08/15/22 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 14:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*08/12/22 15:08*	*08/15/22 14:56*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/12/22 15:08*	*08/15/22 14:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.4**		5.01		mg/Kg			08/16/22 12:06	1

Client Sample ID: FS08

Lab Sample ID: 890-2740-8

Date Collected: 08/10/22 11:30
Matrix: Solid
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 14:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 14:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 14:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/20/22 11:48	08/24/22 14:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 14:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/20/22 11:48	08/24/22 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:18*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Job ID: 890-2740-1
Project/Site: Los Medynos

Client Sample ID: FS08
Lab Sample ID: 890-2740-8
Date Collected: 08/10/22 11:30
Matrix: Solid
Date Received: 08/10/22 16:09
Sample Depth: 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		08/12/22 15:08	08/15/22 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 15:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*08/12/22 15:08*	*08/15/22 15:18*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/12/22 15:08*	*08/15/22 15:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.0**		5.02		mg/Kg			08/16/22 12:15	1

Client Sample ID: FS09
Lab Sample ID: 890-2740-9
Date Collected: 08/10/22 11:35
Matrix: Solid
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 14:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 14:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 14:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/20/22 11:48	08/24/22 14:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/20/22 11:48	08/24/22 14:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/20/22 11:48	08/24/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/15/22 10:31	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		08/12/22 15:08	08/15/22 16:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/12/22 15:08	08/15/22 16:04	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/12/22 15:08	08/15/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/12/22 15:08*	*08/15/22 16:04*	*1*
o-Terphenyl	*105*		*70 - 130*	*08/12/22 15:08*	*08/15/22 16:04*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS09

Lab Sample ID: 890-2740-9
Matrix: Solid
Date Collected: 08/10/22 11:35
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		5.03		mg/Kg			08/16/22 12:24	1

Client Sample ID: FS10

Lab Sample ID: 890-2740-10
Matrix: Solid
Date Collected: 08/10/22 11:40
Date Received: 08/10/22 16:09
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 14:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 14:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 14:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/20/22 11:48	08/24/22 14:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/22 11:48	08/24/22 14:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/22 11:48	08/24/22 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:59*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/20/22 11:48*	*08/24/22 14:59*	*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			08/24/22 16:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/15/22 10:31	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		08/12/22 15:08	08/15/22 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*08/12/22 15:08*	*08/15/22 16:25*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/12/22 15:08*	*08/15/22 16:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.7		4.98		mg/Kg			08/16/22 12:33	1

Surrogate Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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)
890-2740-1	FS01	115	95
890-2740-1 MS	FS01	125	104
890-2740-1 MSD	FS01	129	106
890-2740-2	FS02	126	91
890-2740-3	FS03	111	91
890-2740-4	FS04	112	98
890-2740-5	FS05	107	86
890-2740-6	FS06	114	96
890-2740-7	FS07	108	92
890-2740-8	FS08	110	91
890-2740-9	FS09	112	95
890-2740-10	FS10	112	98
LCS 880-32564/1-A	Lab Control Sample	119	94
LCSD 880-32564/2-A	Lab Control Sample Dup	114	103
MB 880-32564/5-A	Method Blank	98	94

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)
880-17973-A-1-E MS	Matrix Spike	112	94
880-17973-A-1-F MSD	Matrix Spike Duplicate	115	93
880-18042-A-1-B MS	Matrix Spike	118	79
880-18042-A-1-C MSD	Matrix Spike Duplicate	101	79
880-18047-A-1-B MS	Matrix Spike	118	108
880-18047-A-1-C MSD	Matrix Spike Duplicate	117	107
890-2740-1	FS01	106	91
890-2740-2	FS02	116	107
890-2740-3	FS03	100	89
890-2740-4	FS04	114	100
890-2740-5	FS05	129	114
890-2740-6	FS06	110	96
890-2740-7	FS07	118	105
890-2740-8	FS08	121	106
890-2740-9	FS09	124	105
890-2740-10	FS10	134 S1+	118
LCS 880-32054/2-A	Lab Control Sample	105	100
LCS 880-32104/2-A	Lab Control Sample	115	94
LCS 880-32109/2-A	Lab Control Sample	129	114
LCSD 880-32054/3-A	Lab Control Sample Dup	117	89
LCSD 880-32104/3-A	Lab Control Sample Dup	106	92
LCSD 880-32109/3-A	Lab Control Sample Dup	116	113
MB 880-32054/1-A	Method Blank	114	109
MB 880-32104/1-A	Method Blank	123	114

Surrogate Summary

Client: Ensolum Job ID: 890-2740-1
Project/Site: Los Medynos

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-32109/1-A	Method Blank	110	104								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32564/5-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32564

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/20/22 11:48	08/24/22 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:33*	*1*

Lab Sample ID: LCS 880-32564/1-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08178		mg/Kg		82	70 - 130		
Toluene			0.100	0.09200		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09558		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.2064		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-32564/2-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32564

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1001		mg/Kg		100	70 - 130	20	35
Toluene			0.100	0.09163		mg/Kg		92	70 - 130	0	35
Ethylbenzene			0.100	0.09345		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1890		mg/Kg		95	70 - 130	9	35
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2740-1 MS
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 32564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08689		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.100	0.08363		mg/Kg		83	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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

Lab Sample ID: 890-2740-1 MS
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 32564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08828		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1885		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2740-1 MSD
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 32564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09487		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0998	0.09355		mg/Kg		94	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0998	0.09997		mg/Kg		100	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2119		mg/Kg		106	70 - 130	12	35
o-Xylene	<0.00201	U	0.0998	0.1238		mg/Kg		124	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

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

Lab Sample ID: MB 880-32054/1-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32054

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 08:52	08/12/22 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/12/22 08:52*	*08/12/22 10:43*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/12/22 08:52*	*08/12/22 10:43*	*1*

Lab Sample ID: LCS 880-32054/2-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32054

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	991.2		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1150		mg/Kg		115	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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

Lab Sample ID: LCS 880-32054/2-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32054

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-32054/3-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32054

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	947.1		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		105	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-17973-A-1-E MS
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32054

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	982.6		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	153		999	1216		mg/Kg		106	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-17973-A-1-F MSD
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32054

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	1018		mg/Kg		102	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	153		999	1187		mg/Kg		104	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	93		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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

Lab Sample ID: MB 880-32104/1-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32104

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 14:26	08/12/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 14:26	08/12/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 14:26	08/12/22 20:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*08/12/22 14:26*	*08/12/22 20:47*	*1*
o-Terphenyl	*114*		*70 - 130*	*08/12/22 14:26*	*08/12/22 20:47*	*1*

Lab Sample ID: LCS 880-32104/2-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1000		mg/Kg		100	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-32104/3-A
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1002		mg/Kg		100	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-18042-A-1-B MS
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1150		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1022		mg/Kg		99	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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

Lab Sample ID: 880-18042-A-1-B MS
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32104

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-18042-A-1-C MSD
Matrix: Solid
Analysis Batch: 32049

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32104

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	1114		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1020		mg/Kg		99	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: MB 880-32109/1-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32109

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/12/22 15:08	08/15/22 10:19	1
o-Terphenyl	104		70 - 130	08/12/22 15:08	08/15/22 10:19	1

Lab Sample ID: LCS 880-32109/2-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	114		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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

Lab Sample ID: LCSD 880-32109/3-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	587.8	*- *1	mg/Kg		59	70 - 130	34	20
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-18047-A-1-B MS
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32109

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	999	717.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1298		mg/Kg		130	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-18047-A-1-C MSD
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32109

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	999	722.0		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1305	F1	mg/Kg		131	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32165/1-A
Matrix: Solid
Analysis Batch: 32203

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/16/22 07:29	1

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-32165/2-A
Matrix: Solid
Analysis Batch: 32203

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.1		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-32165/3-A
Matrix: Solid
Analysis Batch: 32203

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			251	254.9		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 890-2740-1 MS
Matrix: Solid
Analysis Batch: 32203

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	88.8		250	353.2		mg/Kg		106	90 - 110		

Lab Sample ID: 890-2740-1 MSD
Matrix: Solid
Analysis Batch: 32203

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.8		251	351.2		mg/Kg		105	90 - 110	1	20

Lab Sample ID: MB 880-31950/1-A
Matrix: Solid
Analysis Batch: 32249

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/19/22 00:25	1

Lab Sample ID: LCS 880-31950/2-A
Matrix: Solid
Analysis Batch: 32249

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	240.0		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-31950/3-A
Matrix: Solid
Analysis Batch: 32249

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	240.4		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-2740-1 MS
Matrix: Solid
Analysis Batch: 32249

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8.93		250	283.7		mg/Kg		110	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2740-1 MSD
Matrix: Solid
Analysis Batch: 32249

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.93		250	284.1		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

GC VOA

Prep Batch: 32564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	5035	
890-2740-2	FS02	Total/NA	Solid	5035	
890-2740-3	FS03	Total/NA	Solid	5035	
890-2740-4	FS04	Total/NA	Solid	5035	
890-2740-5	FS05	Total/NA	Solid	5035	
890-2740-6	FS06	Total/NA	Solid	5035	
890-2740-7	FS07	Total/NA	Solid	5035	
890-2740-8	FS08	Total/NA	Solid	5035	
890-2740-9	FS09	Total/NA	Solid	5035	
890-2740-10	FS10	Total/NA	Solid	5035	
MB 880-32564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2740-1 MS	FS01	Total/NA	Solid	5035	
890-2740-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 32814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	8021B	32564
890-2740-2	FS02	Total/NA	Solid	8021B	32564
890-2740-3	FS03	Total/NA	Solid	8021B	32564
890-2740-4	FS04	Total/NA	Solid	8021B	32564
890-2740-5	FS05	Total/NA	Solid	8021B	32564
890-2740-6	FS06	Total/NA	Solid	8021B	32564
890-2740-7	FS07	Total/NA	Solid	8021B	32564
890-2740-8	FS08	Total/NA	Solid	8021B	32564
890-2740-9	FS09	Total/NA	Solid	8021B	32564
890-2740-10	FS10	Total/NA	Solid	8021B	32564
MB 880-32564/5-A	Method Blank	Total/NA	Solid	8021B	32564
LCS 880-32564/1-A	Lab Control Sample	Total/NA	Solid	8021B	32564
LCSD 880-32564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32564
890-2740-1 MS	FS01	Total/NA	Solid	8021B	32564
890-2740-1 MSD	FS01	Total/NA	Solid	8021B	32564

Analysis Batch: 32861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	Total BTEX	
890-2740-2	FS02	Total/NA	Solid	Total BTEX	
890-2740-3	FS03	Total/NA	Solid	Total BTEX	
890-2740-4	FS04	Total/NA	Solid	Total BTEX	
890-2740-5	FS05	Total/NA	Solid	Total BTEX	
890-2740-6	FS06	Total/NA	Solid	Total BTEX	
890-2740-7	FS07	Total/NA	Solid	Total BTEX	
890-2740-8	FS08	Total/NA	Solid	Total BTEX	
890-2740-9	FS09	Total/NA	Solid	Total BTEX	
890-2740-10	FS10	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

GC Semi VOA

Analysis Batch: 32049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	8015B NM	32054
890-2740-2	FS02	Total/NA	Solid	8015B NM	32054
890-2740-3	FS03	Total/NA	Solid	8015B NM	32054
890-2740-4	FS04	Total/NA	Solid	8015B NM	32054
890-2740-5	FS05	Total/NA	Solid	8015B NM	32104
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015B NM	32054
MB 880-32104/1-A	Method Blank	Total/NA	Solid	8015B NM	32104
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32054
LCS 880-32104/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32104
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32054
LCSD 880-32104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32104
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32054
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32054
880-18042-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32104
880-18042-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32104

Prep Batch: 32054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	8015NM Prep	
890-2740-2	FS02	Total/NA	Solid	8015NM Prep	
890-2740-3	FS03	Total/NA	Solid	8015NM Prep	
890-2740-4	FS04	Total/NA	Solid	8015NM Prep	
MB 880-32054/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32054/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32054/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-17973-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-17973-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-32104/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32104/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32104/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18042-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18042-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-6	FS06	Total/NA	Solid	8015NM Prep	
890-2740-7	FS07	Total/NA	Solid	8015NM Prep	
890-2740-8	FS08	Total/NA	Solid	8015NM Prep	
890-2740-9	FS09	Total/NA	Solid	8015NM Prep	
890-2740-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

GC Semi VOA

Analysis Batch: 32125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-6	FS06	Total/NA	Solid	8015B NM	32109
890-2740-7	FS07	Total/NA	Solid	8015B NM	32109
890-2740-8	FS08	Total/NA	Solid	8015B NM	32109
890-2740-9	FS09	Total/NA	Solid	8015B NM	32109
890-2740-10	FS10	Total/NA	Solid	8015B NM	32109
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015B NM	32109
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32109
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32109
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32109
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32109

Analysis Batch: 32155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Total/NA	Solid	8015 NM	
890-2740-2	FS02	Total/NA	Solid	8015 NM	
890-2740-3	FS03	Total/NA	Solid	8015 NM	
890-2740-4	FS04	Total/NA	Solid	8015 NM	
890-2740-5	FS05	Total/NA	Solid	8015 NM	
890-2740-6	FS06	Total/NA	Solid	8015 NM	
890-2740-7	FS07	Total/NA	Solid	8015 NM	
890-2740-8	FS08	Total/NA	Solid	8015 NM	
890-2740-9	FS09	Total/NA	Solid	8015 NM	
890-2740-10	FS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 31950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2740-1 MS	FS01	Soluble	Solid	DI Leach	
890-2740-1 MSD	FS01	Soluble	Solid	DI Leach	

Leach Batch: 32165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Soluble	Solid	DI Leach	
890-2740-2	FS02	Soluble	Solid	DI Leach	
890-2740-3	FS03	Soluble	Solid	DI Leach	
890-2740-4	FS04	Soluble	Solid	DI Leach	
890-2740-5	FS05	Soluble	Solid	DI Leach	
890-2740-6	FS06	Soluble	Solid	DI Leach	
890-2740-7	FS07	Soluble	Solid	DI Leach	
890-2740-8	FS08	Soluble	Solid	DI Leach	
890-2740-9	FS09	Soluble	Solid	DI Leach	
890-2740-10	FS10	Soluble	Solid	DI Leach	
MB 880-32165/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32165/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32165/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2740-1 MS	FS01	Soluble	Solid	DI Leach	
890-2740-1 MSD	FS01	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

HPLC/IC

Analysis Batch: 32203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2740-1	FS01	Soluble	Solid	300.0	32165
890-2740-2	FS02	Soluble	Solid	300.0	32165
890-2740-3	FS03	Soluble	Solid	300.0	32165
890-2740-4	FS04	Soluble	Solid	300.0	32165
890-2740-5	FS05	Soluble	Solid	300.0	32165
890-2740-6	FS06	Soluble	Solid	300.0	32165
890-2740-7	FS07	Soluble	Solid	300.0	32165
890-2740-8	FS08	Soluble	Solid	300.0	32165
890-2740-9	FS09	Soluble	Solid	300.0	32165
890-2740-10	FS10	Soluble	Solid	300.0	32165
MB 880-32165/1-A	Method Blank	Soluble	Solid	300.0	32165
LCS 880-32165/2-A	Lab Control Sample	Soluble	Solid	300.0	32165
LCSD 880-32165/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32165
890-2740-1 MS	FS01	Soluble	Solid	300.0	32165
890-2740-1 MSD	FS01	Soluble	Solid	300.0	32165

Analysis Batch: 32249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31950/1-A	Method Blank	Soluble	Solid	300.0	31950
LCS 880-31950/2-A	Lab Control Sample	Soluble	Solid	300.0	31950
LCSD 880-31950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31950
890-2740-1 MS	FS01	Soluble	Solid	300.0	31950
890-2740-1 MSD	FS01	Soluble	Solid	300.0	31950

Lab Chronicle

Client: Ensolum
Job ID: 890-2740-1
Project/Site: Los Medynos

Client Sample ID: FS01
Lab Sample ID: 890-2740-1
Date Collected: 08/10/22 09:45
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 11:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 10:34	CH	EET MID

Client Sample ID: FS02
Lab Sample ID: 890-2740-2
Date Collected: 08/10/22 09:50
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 12:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 11:01	CH	EET MID

Client Sample ID: FS03
Lab Sample ID: 890-2740-3
Date Collected: 08/10/22 09:55
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 12:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 19:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 11:10	CH	EET MID

Client Sample ID: FS04
Lab Sample ID: 890-2740-4
Date Collected: 08/10/22 10:00
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 12:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Client Sample ID: FS04
Date Collected: 08/10/22 10:00
Date Received: 08/10/22 16:09

Lab Sample ID: 890-2740-4
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			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32054	08/12/22 08:52	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/12/22 20:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 11:38	CH	EET MID

Client Sample ID: FS05
Date Collected: 08/10/22 10:05
Date Received: 08/10/22 16:09

Lab Sample ID: 890-2740-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 13:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32104	08/12/22 14:26	DM	EET MID
Total/NA	Analysis	8015B NM		1			32049	08/13/22 05:46	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 11:47	CH	EET MID

Client Sample ID: FS06
Date Collected: 08/10/22 11:20
Date Received: 08/10/22 16:09

Lab Sample ID: 890-2740-6
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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 13:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/12/22 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 14:35	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 11:56	CH	EET MID

Client Sample ID: FS07
Date Collected: 08/10/22 11:25
Date Received: 08/10/22 16:09

Lab Sample ID: 890-2740-7
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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 13:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/12/22 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 14:56	SM	EET MID

Lab Chronicle

Client: Ensolum
Job ID: 890-2740-1
Project/Site: Los Medynos

Client Sample ID: FS07
Lab Sample ID: 890-2740-7
Date Collected: 08/10/22 11:25
Matrix: Solid
Date Received: 08/10/22 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 12:06	CH	EET MID

Client Sample ID: FS08
Lab Sample ID: 890-2740-8
Date Collected: 08/10/22 11:30
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 14:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/12/22 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 15:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 12:15	CH	EET MID

Client Sample ID: FS09
Lab Sample ID: 890-2740-9
Date Collected: 08/10/22 11:35
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 14:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32109	08/12/22 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 16:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 12:24	CH	EET MID

Client Sample ID: FS10
Lab Sample ID: 890-2740-10
Date Collected: 08/10/22 11:40
Matrix: Solid
Date Received: 08/10/22 16:09

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	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 14:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32861	08/24/22 16:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			32155	08/15/22 10:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/12/22 15:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 16:25	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32165	08/15/22 11:29	KS	EET MID
Soluble	Analysis	300.0		1			32203	08/16/22 12:33	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Los Medynos

Job ID: 890-2740-1

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: Los Medynos

Job ID: 890-2740-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Job ID: 890-2740-1
Project/Site: Los Medynos

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2740-1	FS01	Solid	08/10/22 09:45	08/10/22 16:09	4
890-2740-2	FS02	Solid	08/10/22 09:50	08/10/22 16:09	4
890-2740-3	FS03	Solid	08/10/22 09:55	08/10/22 16:09	4
890-2740-4	FS04	Solid	08/10/22 10:00	08/10/22 16:09	1
890-2740-5	FS05	Solid	08/10/22 10:05	08/10/22 16:09	1
890-2740-6	FS06	Solid	08/10/22 11:20	08/10/22 16:09	1
890-2740-7	FS07	Solid	08/10/22 11:25	08/10/22 16:09	1
890-2740-8	FS08	Solid	08/10/22 11:30	08/10/22 16:09	1
890-2740-9	FS09	Solid	08/10/22 11:35	08/10/22 16:09	1
890-2740-10	FS10	Solid	08/10/22 11:40	08/10/22 16:09	1

Chain of Custody

eurofins | Environment Testing Xenco

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

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
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	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:	Los Medanos	Turn Around	
Project Number:	03A1558007	☒ Routine ☐ Rush	
Project Location:	32.2542, -103.8374	Due Date:	
Sampler's Name:	Kyse 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:	TAM-007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	24.7	
Total Containers:		Corrected Temperature:	24.5	

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: BTEX	TPH	Chlorides	Sample Comments
FS01	S	8/10/22	0945	4				X	X	X	Incident #:
FS02			0950	4							nAPP2204835360
FS03			0955	4							
FS04			1000	1							CC: 209437001
~~FS05~~ FS05			1005	1							
FS06			1120	1							
FS07			1125	1							Cooling In Process
FS08			1130	1							
FS09			1135	1							
FS10			1140	1							

890-2740 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	Amanda Stiff	8.10.22 1609	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2740-1
SDG Number:

Login Number: 2740
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: 890-2740-1
SDG Number:

Login Number: 2740
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/12/22 10:56 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2748-1
Laboratory Sample Delivery Group: 03E1558007
Client Project/Site: Los Medanos

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

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
8/26/2022 1:49:18 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: Los Medanos

Laboratory Job ID: 890-2748-1
SDG: 03E1558007

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-2748-1
Project/Site: Los Medanos SDG: 03E1558007

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, 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, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Definitions/Glossary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Job ID: 890-2748-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2748-1

Receipt
The samples were received on 8/12/2022 1:51 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 8.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32833 and analytical batch 880-32836 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 and precision for preparation batch 880-32568 and analytical batch 880-32832 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32569 and analytical batch 880-32815 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 was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-2748-A-1-A MS) and (890-2748-A-1-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS13 (890-2748-3), FS14 (890-2748-4) and FS15 (890-2748-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32130 and analytical batch 880-32127 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32109 and analytical batch 880-32125 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Gasoline range hydrocarbons biased low in LCSD. Since only an acceptable LCS is required per the method, the data has been qualified and reported.(LCSD 880-32109/3-A)

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 880-32343 and analytical batch 880-32439 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: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS11

Lab Sample ID: 890-2748-1
Matrix: Solid

Date Collected: 08/11/22 12:30
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 13:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 13:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 13:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/20/22 15:24	08/25/22 13:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 13:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/22 15:24	08/25/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 15:24*	*08/25/22 13:52*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*08/20/22 15:24*	*08/25/22 13:52*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 11:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		08/15/22 08:30	08/15/22 11:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*08/15/22 08:30*	*08/15/22 11:23*	*1*
o-Terphenyl	*70*		*70 - 130*	*08/15/22 08:30*	*08/15/22 11:23*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**74.8**		4.99		mg/Kg			08/19/22 13:38	1

Client Sample ID: FS12

Lab Sample ID: 890-2748-2
Matrix: Solid

Date Collected: 08/11/22 12:35
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 13:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 13:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 13:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 16:09	08/25/22 13:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 13:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 16:09	08/25/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*08/24/22 16:09*	*08/25/22 13:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS12

Lab Sample ID: 890-2748-2
Matrix: Solid

Date Collected: 08/11/22 12:35
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/24/22 16:09*	*08/25/22 13:14*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/15/22 08:30	08/15/22 12:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/15/22 08:30	08/15/22 12:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/15/22 08:30	08/15/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*08/15/22 08:30*	*08/15/22 12:27*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/15/22 08:30*	*08/15/22 12:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**214**		5.00	mg/Kg			08/19/22 14:05	1

Client Sample ID: FS13

Lab Sample ID: 890-2748-3
Matrix: Solid

Date Collected: 08/11/22 12:40
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 15:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 15:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 15:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 15:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 15:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/22 15:24	08/25/22 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/20/22 15:24*	*08/25/22 15:48*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/20/22 15:24*	*08/25/22 15:48*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/16/22 10:29	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS13

Lab Sample ID: 890-2748-3
Matrix: Solid
Date Collected: 08/11/22 12:40
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 12:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 12:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*08/15/22 08:30*	*08/15/22 12:48*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*08/15/22 08:30*	*08/15/22 12:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		4.96		mg/Kg			08/19/22 14:15	1

Client Sample ID: FS14

Lab Sample ID: 890-2748-4
Matrix: Solid
Date Collected: 08/11/22 12:45
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 16:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:08*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*08/15/22 08:30*	*08/15/22 13:10*	*1*
o-Terphenyl	*59*	*S1-*	*70 - 130*	*08/15/22 08:30*	*08/15/22 13:10*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS14

Lab Sample ID: 890-2748-4
Matrix: Solid
Date Collected: 08/11/22 12:45
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		5.04		mg/Kg			08/19/22 14:24	1

Client Sample ID: FS15

Lab Sample ID: 890-2748-5
Matrix: Solid
Date Collected: 08/11/22 12:50
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 16:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 16:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 16:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/20/22 15:24	08/25/22 16:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/20/22 15:24	08/25/22 16:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/20/22 15:24	08/25/22 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:29*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*08/15/22 08:30*	*08/15/22 13:31*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*08/15/22 08:30*	*08/15/22 13:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.1		4.96		mg/Kg			08/19/22 14:33	1

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS16

Lab Sample ID: 890-2748-6
Matrix: Solid
Date Collected: 08/11/22 12:55
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 16:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 16:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:49*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/20/22 15:24*	*08/25/22 16:49*	*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			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/15/22 08:30*	*08/15/22 13:52*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/15/22 08:30*	*08/15/22 13:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		4.95		mg/Kg			08/19/22 15:01	1

Client Sample ID: FS17

Lab Sample ID: 890-2748-7
Matrix: Solid
Date Collected: 08/11/22 13:00
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 17:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 17:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 17:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 17:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/20/22 15:24	08/25/22 17:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/20/22 15:24	08/25/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:10*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS17

Lab Sample ID: 890-2748-7
Matrix: Solid
Date Collected: 08/11/22 13:00
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:10*	*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			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 14:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:14*	*1*
o-Terphenyl	*79*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.9**		5.00	mg/Kg			08/19/22 15:10	1

Client Sample ID: FS18

Lab Sample ID: 890-2748-8
Matrix: Solid
Date Collected: 08/11/22 13:05
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 17:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/20/22 15:24	08/25/22 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/22 15:24	08/25/22 17:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/20/22 15:24	08/25/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:30*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/16/22 10:29	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS18

Lab Sample ID: 890-2748-8
Matrix: Solid
Date Collected: 08/11/22 13:05
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:35*	*1*
o-Terphenyl	*74*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:35*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.3**		4.97		mg/Kg			08/19/22 15:19	1

Client Sample ID: FS19

Lab Sample ID: 890-2748-9
Matrix: Solid
Date Collected: 08/11/22 13:10
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 17:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/20/22 15:24	08/25/22 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 17:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/20/22 15:24	08/25/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:51*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/20/22 15:24*	*08/25/22 17:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:56*	*1*
o-Terphenyl	*83*		*70 - 130*	*08/15/22 08:30*	*08/15/22 14:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS19

Lab Sample ID: 890-2748-9
Matrix: Solid
Date Collected: 08/11/22 13:10
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.7		4.98		mg/Kg			08/19/22 15:28	1

Client Sample ID: FS20

Lab Sample ID: 890-2748-10
Matrix: Solid
Date Collected: 08/11/22 13:15
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 16:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/20/22 11:48	08/24/22 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 16:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/20/22 11:48	08/24/22 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*08/20/22 11:48*	*08/24/22 16:39*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/20/22 11:48*	*08/24/22 16:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/16/22 10:29	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		08/15/22 08:30	08/15/22 15:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/15/22 08:30	08/15/22 15:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/15/22 08:30	08/15/22 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/15/22 08:30*	*08/15/22 15:18*	*1*
o-Terphenyl	*72*		*70 - 130*	*08/15/22 08:30*	*08/15/22 15:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.6		4.99		mg/Kg			08/19/22 15:37	1

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS21

Lab Sample ID: 890-2748-11
Matrix: Solid
Date Collected: 08/11/22 13:20
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0149**		0.00199		mg/Kg		08/20/22 15:24	08/25/22 18:11	1
Toluene	**0.180**		0.00199		mg/Kg		08/20/22 15:24	08/25/22 18:11	1
Ethylbenzene	**0.0747**		0.00199		mg/Kg		08/20/22 15:24	08/25/22 18:11	1
m-Xylene & p-Xylene	**0.300**		0.00398		mg/Kg		08/20/22 15:24	08/25/22 18:11	1
o-Xylene	**0.107**		0.00199		mg/Kg		08/20/22 15:24	08/25/22 18:11	1
Xylenes, Total	**0.407**		0.00398		mg/Kg		08/20/22 15:24	08/25/22 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*176*	*S1+*	*70 - 130*	*08/20/22 15:24*	*08/25/22 18:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/20/22 15:24*	*08/25/22 18:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.677**		0.00398		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 16:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 16:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:04*	*1*
o-Terphenyl	*91*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**	**F1**	4.98		mg/Kg			08/19/22 15:47	1

Client Sample ID: FS22

Lab Sample ID: 890-2748-12
Matrix: Solid
Date Collected: 08/11/22 13:25
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/25/22 09:55	08/25/22 19:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/25/22 09:55	08/25/22 19:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/25/22 09:55	08/25/22 19:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/25/22 09:55	08/25/22 19:01	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/25/22 09:55	08/25/22 19:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/25/22 09:55	08/25/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*08/25/22 09:55*	*08/25/22 19:01*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS22

Lab Sample ID: 890-2748-12
Matrix: Solid
Date Collected: 08/11/22 13:25
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/25/22 09:55*	*08/25/22 19:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 16:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 16:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/15/22 08:30	08/15/22 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:25*	*1*
o-Terphenyl	*71*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		5.00	mg/Kg			08/19/22 16:14	1

Client Sample ID: FS23

Lab Sample ID: 890-2748-13
Matrix: Solid
Date Collected: 08/11/22 13:30
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 19:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/25/22 09:55	08/25/22 19:27	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/25/22 09:55	08/25/22 19:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/25/22 09:55	08/25/22 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*08/25/22 09:55*	*08/25/22 19:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/25/22 09:55*	*08/25/22 19:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/16/22 10:29	1

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS23

Lab Sample ID: 890-2748-13
Matrix: Solid
Date Collected: 08/11/22 13:30
Date Received: 08/12/22 13:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 16:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:47*	*1*
o-Terphenyl	*75*		*70 - 130*	*08/15/22 08:30*	*08/15/22 16:47*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		4.97		mg/Kg			08/19/22 16:24	1

Client Sample ID: FS24

Lab Sample ID: 890-2748-14
Matrix: Solid
Date Collected: 08/11/22 13:35
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 05:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 05:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 05:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 10:17	08/25/22 05:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 05:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 10:17	08/25/22 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/24/22 10:17*	*08/25/22 05:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/24/22 10:17*	*08/25/22 05:37*	*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			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 17:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 17:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:08*	*1*
o-Terphenyl	*73*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS24
Lab Sample ID: 890-2748-14
Date Collected: 08/11/22 13:35
Matrix: Solid
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.01		mg/Kg			08/19/22 16:51	1

Client Sample ID: FS25
Lab Sample ID: 890-2748-15
Date Collected: 08/11/22 13:40
Matrix: Solid
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 10:17	08/25/22 05:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 10:17	08/25/22 05:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 10:17	08/25/22 05:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/24/22 10:17	08/25/22 05:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 10:17	08/25/22 05:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 10:17	08/25/22 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/24/22 10:17*	*08/25/22 05:58*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*08/24/22 10:17*	*08/25/22 05:58*	*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			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/16/22 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 17:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 17:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/15/22 08:30	08/15/22 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:30*	*1*
o-Terphenyl	*74*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	885		4.97		mg/Kg			08/19/22 17:00	1

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS26

Lab Sample ID: 890-2748-16
Matrix: Solid
Date Collected: 08/11/22 13:45
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 06:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 06:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 06:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/24/22 10:17	08/25/22 06:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 06:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/24/22 10:17	08/25/22 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*08/24/22 10:17*	*08/25/22 06:18*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/24/22 10:17*	*08/25/22 06:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/16/22 10:29	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		08/15/22 08:30	08/15/22 17:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/15/22 08:30	08/15/22 17:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/15/22 08:30	08/15/22 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:51*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/15/22 08:30*	*08/15/22 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.4**		4.98		mg/Kg			08/19/22 17:10	1

Client Sample ID: FS27

Lab Sample ID: 890-2748-17
Matrix: Solid
Date Collected: 08/11/22 13:50
Date Received: 08/12/22 13:51
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 08:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 08:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 08:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 10:17	08/25/22 08:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 08:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 10:17	08/25/22 08:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/24/22 10:17*	*08/25/22 08:08*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS27

Date Collected: 08/11/22 13:50
Date Received: 08/12/22 13:51
Sample Depth: 1'

Lab Sample ID: 890-2748-17

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/24/22 10:17*	*08/25/22 08:08*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/25/22 09:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/16/22 10:29	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		08/15/22 10:00	08/15/22 19:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 19:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 10:00	08/15/22 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*08/15/22 10:00*	*08/15/22 19:17*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/15/22 10:00*	*08/15/22 19:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**275**		5.00		mg/Kg			08/19/22 17:19	1

Surrogate Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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)
880-18073-A-1-C MS	Matrix Spike	109	92
880-18073-A-1-D MSD	Matrix Spike Duplicate	109	103
890-2740-A-1-H MS	Matrix Spike	125	104
890-2740-A-1-I MSD	Matrix Spike Duplicate	129	106
890-2748-1	FS11	112	95
890-2748-2	FS12	120	104
890-2748-3	FS13	115	94
890-2748-4	FS14	123	86
890-2748-5	FS15	124	85
890-2748-6	FS16	125	90
890-2748-7	FS17	103	93
890-2748-8	FS18	112	96
890-2748-9	FS19	112	94
890-2748-10	FS20	109	92
890-2748-11	FS21	176 S1+	105
890-2748-12	FS22	116	104
890-2748-13	FS23	117	104
890-2748-14	FS24	95	100
890-2748-15	FS25	99	100
890-2748-16	FS26	102	99
890-2748-17	FS27	91	110
890-2750-A-1-H MS	Matrix Spike	119	99
890-2750-A-1-I MSD	Matrix Spike Duplicate	88	90
890-2795-A-4-D MS	Matrix Spike	105	103
890-2795-A-4-E MSD	Matrix Spike Duplicate	98	102
890-2808-A-1-C MS	Matrix Spike	114	102
890-2808-A-1-D MSD	Matrix Spike Duplicate	107	92
LCS 880-32564/1-A	Lab Control Sample	119	94
LCS 880-32568/1-A	Lab Control Sample	114	118
LCS 880-32569/1-A	Lab Control Sample	109	98
LCS 880-32833/1-A	Lab Control Sample	93	95
LCS 880-32923/1-A	Lab Control Sample	119	104
LCSD 880-32564/2-A	Lab Control Sample Dup	114	103
LCSD 880-32568/2-A	Lab Control Sample Dup	130	103
LCSD 880-32569/2-A	Lab Control Sample Dup	119	98
LCSD 880-32833/2-A	Lab Control Sample Dup	99	101
LCSD 880-32923/2-A	Lab Control Sample Dup	114	102
MB 880-32564/5-A	Method Blank	98	94
MB 880-32568/5-A	Method Blank	101	90
MB 880-32569/5-A	Method Blank	81	84
MB 880-32772/5-A	Method Blank	79	118
MB 880-32833/5-A	Method Blank	81	120
MB 880-32835/5-A	Method Blank	80	88
MB 880-32923/5-A	Method Blank	81	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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)								
880-18047-A-1-B MS	Matrix Spike	118	108								
880-18047-A-1-C MSD	Matrix Spike Duplicate	117	107								
890-2748-1	FS11	83	70								
890-2748-1 MS	FS11	74	63 S1-								
890-2748-1 MSD	FS11	70	55 S1-								
890-2748-2	FS12	91	80								
890-2748-3	FS13	66 S1-	61 S1-								
890-2748-4	FS14	68 S1-	59 S1-								
890-2748-5	FS15	74	68 S1-								
890-2748-6	FS16	96	88								
890-2748-7	FS17	90	79								
890-2748-8	FS18	79	74								
890-2748-9	FS19	95	83								
890-2748-10	FS20	80	72								
890-2748-11	FS21	102	91								
890-2748-12	FS22	76	71								
890-2748-13	FS23	80	75								
890-2748-14	FS24	79	73								
890-2748-15	FS25	82	74								
890-2748-16	FS26	101	85								
890-2748-17	FS27	122	110								
LCS 880-32109/2-A	Lab Control Sample	129	114								
LCS 880-32130/2-A	Lab Control Sample	91	89								
LCSD 880-32109/3-A	Lab Control Sample Dup	116	113								
LCSD 880-32130/3-A	Lab Control Sample Dup	107	100								
MB 880-32109/1-A	Method Blank	110	104								
MB 880-32130/1-A	Method Blank	101	99								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32564/5-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32564

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 11:48	08/24/22 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/20/22 11:48	08/24/22 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:33*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*08/20/22 11:48*	*08/24/22 11:33*	*1*

Lab Sample ID: LCS 880-32564/1-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08178		mg/Kg		82	70 - 130		
Toluene			0.100	0.09200		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09558		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.2064		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 880-32564/2-A
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32564

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1001		mg/Kg		100	70 - 130	20	35
Toluene			0.100	0.09163		mg/Kg		92	70 - 130	0	35
Ethylbenzene			0.100	0.09345		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1890		mg/Kg		95	70 - 130	9	35
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2740-A-1-H MS
Matrix: Solid
Analysis Batch: 32814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08689		mg/Kg		87	70 - 130		
Toluene	<0.00201	U	0.100	0.08363		mg/Kg		83	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: 890-2740-A-1-H MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32814 — **Prep Batch: 32564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.08828		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1885		mg/Kg		94	70 - 130
o-Xylene	<0.00201	U	0.100	0.1103		mg/Kg		110	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2740-A-1-I MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32814 — **Prep Batch: 32564**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09487		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0998	0.09355		mg/Kg		94	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0998	0.09997		mg/Kg		100	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2119		mg/Kg		106	70 - 130	12	35
o-Xylene	<0.00201	U	0.0998	0.1238		mg/Kg		124	70 - 130	12	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-32568/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32832 — **Prep Batch: 32568**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 10:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/20/22 15:24	08/25/22 10:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/22 15:24	08/25/22 10:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/20/22 15:24	08/25/22 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*08/20/22 15:24*	*08/25/22 10:47*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/20/22 15:24*	*08/25/22 10:47*	*1*

Lab Sample ID: LCS 880-32568/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32832 — **Prep Batch: 32568**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08421		mg/Kg		84	70 - 130
Toluene	0.100	0.08069		mg/Kg		81	70 - 130
Ethylbenzene	0.100	0.08760		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1782		mg/Kg		89	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: LCS 880-32568/1-A
Matrix: Solid
Analysis Batch: 32832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32568

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1040		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-32568/2-A
Matrix: Solid
Analysis Batch: 32832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32568

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09160		mg/Kg		92	70 - 130	8	35
Toluene			0.100	0.09082		mg/Kg		91	70 - 130	12	35
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130	13	35
m-Xylene & p-Xylene			0.200	0.2090		mg/Kg		105	70 - 130	16	35
o-Xylene			0.100	0.1219		mg/Kg		122	70 - 130	16	35

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

Lab Sample ID: 890-2750-A-1-H MS
Matrix: Solid
Analysis Batch: 32832

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1 F2	0.0998	0.05443	F1	mg/Kg		55	70 - 130		
Toluene	<0.00201	U F1 F2	0.0998	0.05913	F1	mg/Kg		59	70 - 130		
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.06688	F1	mg/Kg		67	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1288	F1	mg/Kg		65	70 - 130		
o-Xylene	<0.00201	U F1 F2	0.0998	0.07445		mg/Kg		75	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2750-A-1-I MSD
Matrix: Solid
Analysis Batch: 32832

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0994	0.01901	F1 F2	mg/Kg		19	70 - 130	96	35
Toluene	<0.00201	U F1 F2	0.0994	0.02694	F1 F2	mg/Kg		27	70 - 130	75	35
Ethylbenzene	<0.00201	U F1 F2	0.0994	0.02636	F1 F2	mg/Kg		27	70 - 130	87	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.04893	F1 F2	mg/Kg		25	70 - 130	90	35
o-Xylene	<0.00201	U F1 F2	0.0994	0.03111	F1 F2	mg/Kg		31	70 - 130	82	35

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: 890-2750-A-1-I MSD
Matrix: Solid
Analysis Batch: 32832

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32568

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-32569/5-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32569

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 16:09	08/25/22 03:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/22 16:09	08/25/22 03:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	08/24/22 16:09	08/25/22 03:27	1
1,4-Difluorobenzene (Surr)	84		70 - 130	08/24/22 16:09	08/25/22 03:27	1

Lab Sample ID: LCS 880-32569/1-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32569

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08300		mg/Kg		83	70 - 130		
Toluene			0.100	0.08568		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09101		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1888		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1069		mg/Kg		107	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-32569/2-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32569

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09641		mg/Kg		96	70 - 130	15	35
Toluene			0.100	0.09650		mg/Kg		96	70 - 130	12	35
Ethylbenzene			0.100	0.1051		mg/Kg		105	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2168		mg/Kg		108	70 - 130	14	35
o-Xylene			0.100	0.1225		mg/Kg		122	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: LCSD 880-32569/2-A
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32569

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

Lab Sample ID: 880-18073-A-1-C MS
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32569

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.05515	F1	mg/Kg		55	70 - 130		
Toluene	<0.00201	U F1	0.100	0.06408	F1	mg/Kg		64	70 - 130		
Ethylbenzene	<0.00201	U F1	0.100	0.06140	F1	mg/Kg		61	70 - 130		
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1261	F1	mg/Kg		63	70 - 130		
o-Xylene	<0.00201	U F1	0.100	0.07280		mg/Kg		73	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-18073-A-1-D MSD
Matrix: Solid
Analysis Batch: 32815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32569

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.05219	F1	mg/Kg		52	70 - 130	6	35
Toluene	<0.00201	U F1	0.0998	0.06153	F1	mg/Kg		62	70 - 130	4	35
Ethylbenzene	<0.00201	U F1	0.0998	0.05861	F1	mg/Kg		59	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1208	F1	mg/Kg		61	70 - 130	4	35
o-Xylene	<0.00201	U F1	0.0998	0.06845	F1	mg/Kg		69	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-32772/5-A
Matrix: Solid
Analysis Batch: 32836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32772

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/22 10:42	08/24/22 14:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/23/22 10:42	08/24/22 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/22 10:42	08/24/22 14:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/22 10:42	08/24/22 14:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/23/22 10:42	08/24/22 14:51	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/23/22 10:42	08/24/22 14:51	1

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-32833/5-A
Matrix: Solid
Analysis Batch: 32836

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32833

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 02:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 02:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 02:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/22 10:17	08/25/22 02:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 10:17	08/25/22 02:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/22 10:17	08/25/22 02:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*08/24/22 10:17*	*08/25/22 02:46*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*08/24/22 10:17*	*08/25/22 02:46*	*1*

Lab Sample ID: LCS 880-32833/1-A
Matrix: Solid
Analysis Batch: 32836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32833

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08613		mg/Kg		86	70 - 130		
Toluene			0.100	0.09677		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.09345		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1748		mg/Kg		87	70 - 130		
o-Xylene			0.100	0.09368		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-32833/2-A
Matrix: Solid
Analysis Batch: 32836

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32833

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09646		mg/Kg		96	70 - 130	11	35
Toluene			0.100	0.1048		mg/Kg		105	70 - 130	8	35
Ethylbenzene			0.100	0.1015		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1862		mg/Kg		93	70 - 130	6	35
o-Xylene			0.100	0.09933		mg/Kg		99	70 - 130	6	35

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

Lab Sample ID: 890-2795-A-4-D MS
Matrix: Solid
Analysis Batch: 32836

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.09197		mg/Kg		92	70 - 130		
Toluene	<0.00201	U F1	0.100	0.07107		mg/Kg		71	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: 890-2795-A-4-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32836 — **Prep Batch: 32833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.07605		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1360	F1	mg/Kg		68	70 - 130
o-Xylene	<0.00201	U	0.100	0.09272		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2795-A-4-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32836 — **Prep Batch: 32833**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.06774	F1	mg/Kg		68	70 - 130	30	35
Toluene	<0.00201	U F1	0.0998	0.05943	F1	mg/Kg		60	70 - 130	18	35
Ethylbenzene	<0.00201	U F1	0.0998	0.06184	F1	mg/Kg		62	70 - 130	21	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1129	F1	mg/Kg		57	70 - 130	19	35
o-Xylene	<0.00201	U	0.0998	0.07382		mg/Kg		74	70 - 130	23	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-32835/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32815 — **Prep Batch: 32835**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/24/22 10:24	08/24/22 13:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/24/22 10:24	08/24/22 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*08/24/22 10:24*	*08/24/22 13:56*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/24/22 10:24*	*08/24/22 13:56*	*1*

Lab Sample ID: MB 880-32923/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32929 — **Prep Batch: 32923**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 17:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 17:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/22 09:55	08/25/22 17:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/22 09:55	08/25/22 17:20	1

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-32923/5-A
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32923

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/25/22 09:55	08/25/22 17:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/25/22 09:55	08/25/22 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*08/25/22 09:55*	*08/25/22 17:20*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*08/25/22 09:55*	*08/25/22 17:20*	*1*

Lab Sample ID: LCS 880-32923/1-A
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32923

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1010		mg/Kg		101	70 - 130		
Toluene			0.100	0.09686		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1075		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2211		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1210		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-32923/2-A
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32923

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1111		mg/Kg		111	70 - 130	10	35
Toluene			0.100	0.1211		mg/Kg		121	70 - 130	22	35
Ethylbenzene			0.100	0.1159		mg/Kg		116	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2383		mg/Kg		119	70 - 130	7	35
o-Xylene			0.100	0.1349	*+	mg/Kg		135	70 - 130	11	35

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

Lab Sample ID: 890-2808-A-1-C MS
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.08889		mg/Kg		89	70 - 130		
Toluene	<0.00201	U	0.100	0.09298		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00201	U	0.100	0.09052		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1888		mg/Kg		94	70 - 130		
o-Xylene	<0.00201	U *+	0.100	0.1038		mg/Kg		104	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: 890-2808-A-1-C MS
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32923

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

Lab Sample ID: 890-2808-A-1-D MSD
Matrix: Solid
Analysis Batch: 32929

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.09078		mg/Kg		91	70 - 130	2	35
Toluene	<0.00201	U	0.0998	0.09595		mg/Kg		96	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0998	0.09206		mg/Kg		92	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1904		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00201	U *+	0.0998	0.1051		mg/Kg		105	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

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

Lab Sample ID: MB 880-32109/1-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32109

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/22 15:08	08/15/22 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/12/22 15:08	08/15/22 10:19	1
o-Terphenyl	104		70 - 130	08/12/22 15:08	08/15/22 10:19	1

Lab Sample ID: LCS 880-32109/2-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	828.5		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	114		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: LCSD 880-32109/3-A
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	587.8	*- *1	mg/Kg		59	70 - 130	34	20
Diesel Range Organics (Over C10-C28)			1000	1080		mg/Kg		108	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-18047-A-1-B MS
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32109

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	999	717.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1298		mg/Kg		130	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 880-18047-A-1-C MSD
Matrix: Solid
Analysis Batch: 32125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32109

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	999	722.0		mg/Kg		72	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1305	F1	mg/Kg		131	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-32130/1-A
Matrix: Solid
Analysis Batch: 32127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32130

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 10:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 10:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/15/22 08:30	08/15/22 10:19	1

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: MB 880-32130/1-A
Matrix: Solid
Analysis Batch: 32127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32130

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/15/22 08:30	08/15/22 10:19	1
o-Terphenyl	99		70 - 130	08/15/22 08:30	08/15/22 10:19	1

Lab Sample ID: LCS 880-32130/2-A
Matrix: Solid
Analysis Batch: 32127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32130

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	887.5		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	800.4		mg/Kg		80	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-32130/3-A
Matrix: Solid
Analysis Batch: 32127

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32130

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	984.0		mg/Kg		98	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	922.9		mg/Kg		92	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-2748-1 MS
Matrix: Solid
Analysis Batch: 32127

Client Sample ID: FS11
Prep Type: Total/NA
Prep Batch: 32130

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	999	856.3		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	752.6		mg/Kg		71	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	63	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Lab Sample ID: 890-2748-1 MSD — **Client Sample ID: FS11**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 32127 — **Prep Batch: 32130**

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	853.8		mg/Kg		85	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	999	688.9	F1	mg/Kg		65	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*70*		*70 - 130*
o-Terphenyl	*55*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32343/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32439

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/19/22 13:10	1

Lab Sample ID: LCS 880-32343/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32439

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.4		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-32343/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.0		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-2748-1 MS — **Client Sample ID: FS11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	74.8		250	337.0		mg/Kg		105	90 - 110		

Lab Sample ID: 890-2748-1 MSD — **Client Sample ID: FS11**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 32439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	74.8		250	331.9		mg/Kg		103	90 - 110	2	20

QC Sample Results

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2748-11 MS
Matrix: Solid
Analysis Batch: 32439

Client Sample ID: FS21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	174	F1	249	450.9	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-2748-11 MSD
Matrix: Solid
Analysis Batch: 32439

Client Sample ID: FS21
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	174	F1	249	420.6		mg/Kg		99	90 - 110	7	20

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

GC VOA

Prep Batch: 32564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-10	FS20	Total/NA	Solid	5035	
MB 880-32564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2740-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2740-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	5035	
890-2748-3	FS13	Total/NA	Solid	5035	
890-2748-4	FS14	Total/NA	Solid	5035	
890-2748-5	FS15	Total/NA	Solid	5035	
890-2748-6	FS16	Total/NA	Solid	5035	
890-2748-7	FS17	Total/NA	Solid	5035	
890-2748-8	FS18	Total/NA	Solid	5035	
890-2748-9	FS19	Total/NA	Solid	5035	
890-2748-11	FS21	Total/NA	Solid	5035	
MB 880-32568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2750-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2750-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-2	FS12	Total/NA	Solid	5035	
MB 880-32569/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32569/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32569/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18073-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-18073-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32772/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-10	FS20	Total/NA	Solid	8021B	32564
MB 880-32564/5-A	Method Blank	Total/NA	Solid	8021B	32564
LCS 880-32564/1-A	Lab Control Sample	Total/NA	Solid	8021B	32564
LCSD 880-32564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32564
890-2740-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	32564
890-2740-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32564

Analysis Batch: 32815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-2	FS12	Total/NA	Solid	8021B	32569
MB 880-32569/5-A	Method Blank	Total/NA	Solid	8021B	32569
MB 880-32835/5-A	Method Blank	Total/NA	Solid	8021B	32835

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

GC VOA (Continued)

Analysis Batch: 32815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32569/1-A	Lab Control Sample	Total/NA	Solid	8021B	32569
LCSD 880-32569/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32569
880-18073-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	32569
880-18073-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32569

Analysis Batch: 32832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	8021B	32568
890-2748-3	FS13	Total/NA	Solid	8021B	32568
890-2748-4	FS14	Total/NA	Solid	8021B	32568
890-2748-5	FS15	Total/NA	Solid	8021B	32568
890-2748-6	FS16	Total/NA	Solid	8021B	32568
890-2748-7	FS17	Total/NA	Solid	8021B	32568
890-2748-8	FS18	Total/NA	Solid	8021B	32568
890-2748-9	FS19	Total/NA	Solid	8021B	32568
890-2748-11	FS21	Total/NA	Solid	8021B	32568
MB 880-32568/5-A	Method Blank	Total/NA	Solid	8021B	32568
LCS 880-32568/1-A	Lab Control Sample	Total/NA	Solid	8021B	32568
LCSD 880-32568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32568
890-2750-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	32568
890-2750-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32568

Prep Batch: 32833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-14	FS24	Total/NA	Solid	5035	
890-2748-15	FS25	Total/NA	Solid	5035	
890-2748-16	FS26	Total/NA	Solid	5035	
890-2748-17	FS27	Total/NA	Solid	5035	
MB 880-32833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 32835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32835/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 32836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-14	FS24	Total/NA	Solid	8021B	32833
890-2748-15	FS25	Total/NA	Solid	8021B	32833
890-2748-16	FS26	Total/NA	Solid	8021B	32833
890-2748-17	FS27	Total/NA	Solid	8021B	32833
MB 880-32772/5-A	Method Blank	Total/NA	Solid	8021B	32772
MB 880-32833/5-A	Method Blank	Total/NA	Solid	8021B	32833
LCS 880-32833/1-A	Lab Control Sample	Total/NA	Solid	8021B	32833
LCSD 880-32833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32833
890-2795-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	32833
890-2795-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32833

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

GC VOA

Analysis Batch: 32917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	Total BTEX	
890-2748-2	FS12	Total/NA	Solid	Total BTEX	
890-2748-3	FS13	Total/NA	Solid	Total BTEX	
890-2748-4	FS14	Total/NA	Solid	Total BTEX	
890-2748-5	FS15	Total/NA	Solid	Total BTEX	
890-2748-6	FS16	Total/NA	Solid	Total BTEX	
890-2748-7	FS17	Total/NA	Solid	Total BTEX	
890-2748-8	FS18	Total/NA	Solid	Total BTEX	
890-2748-9	FS19	Total/NA	Solid	Total BTEX	
890-2748-10	FS20	Total/NA	Solid	Total BTEX	
890-2748-11	FS21	Total/NA	Solid	Total BTEX	
890-2748-12	FS22	Total/NA	Solid	Total BTEX	
890-2748-13	FS23	Total/NA	Solid	Total BTEX	
890-2748-14	FS24	Total/NA	Solid	Total BTEX	
890-2748-15	FS25	Total/NA	Solid	Total BTEX	
890-2748-16	FS26	Total/NA	Solid	Total BTEX	
890-2748-17	FS27	Total/NA	Solid	Total BTEX	

Prep Batch: 32923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-12	FS22	Total/NA	Solid	5035	
890-2748-13	FS23	Total/NA	Solid	5035	
MB 880-32923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2808-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2808-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-12	FS22	Total/NA	Solid	8021B	32923
890-2748-13	FS23	Total/NA	Solid	8021B	32923
MB 880-32923/5-A	Method Blank	Total/NA	Solid	8021B	32923
LCS 880-32923/1-A	Lab Control Sample	Total/NA	Solid	8021B	32923
LCSD 880-32923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32923
890-2808-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	32923
890-2808-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32923

GC Semi VOA

Prep Batch: 32109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-17	FS27	Total/NA	Solid	8015NM Prep	
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

GC Semi VOA

Analysis Batch: 32125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-17	FS27	Total/NA	Solid	8015B NM	32109
MB 880-32109/1-A	Method Blank	Total/NA	Solid	8015B NM	32109
LCS 880-32109/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32109
LCSD 880-32109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32109
880-18047-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32109
880-18047-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32109

Analysis Batch: 32127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	8015B NM	32130
890-2748-2	FS12	Total/NA	Solid	8015B NM	32130
890-2748-3	FS13	Total/NA	Solid	8015B NM	32130
890-2748-4	FS14	Total/NA	Solid	8015B NM	32130
890-2748-5	FS15	Total/NA	Solid	8015B NM	32130
890-2748-6	FS16	Total/NA	Solid	8015B NM	32130
890-2748-7	FS17	Total/NA	Solid	8015B NM	32130
890-2748-8	FS18	Total/NA	Solid	8015B NM	32130
890-2748-9	FS19	Total/NA	Solid	8015B NM	32130
890-2748-10	FS20	Total/NA	Solid	8015B NM	32130
890-2748-11	FS21	Total/NA	Solid	8015B NM	32130
890-2748-12	FS22	Total/NA	Solid	8015B NM	32130
890-2748-13	FS23	Total/NA	Solid	8015B NM	32130
890-2748-14	FS24	Total/NA	Solid	8015B NM	32130
890-2748-15	FS25	Total/NA	Solid	8015B NM	32130
890-2748-16	FS26	Total/NA	Solid	8015B NM	32130
MB 880-32130/1-A	Method Blank	Total/NA	Solid	8015B NM	32130
LCS 880-32130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32130
LCSD 880-32130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32130
890-2748-1 MS	FS11	Total/NA	Solid	8015B NM	32130
890-2748-1 MSD	FS11	Total/NA	Solid	8015B NM	32130

Prep Batch: 32130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	8015NM Prep	
890-2748-2	FS12	Total/NA	Solid	8015NM Prep	
890-2748-3	FS13	Total/NA	Solid	8015NM Prep	
890-2748-4	FS14	Total/NA	Solid	8015NM Prep	
890-2748-5	FS15	Total/NA	Solid	8015NM Prep	
890-2748-6	FS16	Total/NA	Solid	8015NM Prep	
890-2748-7	FS17	Total/NA	Solid	8015NM Prep	
890-2748-8	FS18	Total/NA	Solid	8015NM Prep	
890-2748-9	FS19	Total/NA	Solid	8015NM Prep	
890-2748-10	FS20	Total/NA	Solid	8015NM Prep	
890-2748-11	FS21	Total/NA	Solid	8015NM Prep	
890-2748-12	FS22	Total/NA	Solid	8015NM Prep	
890-2748-13	FS23	Total/NA	Solid	8015NM Prep	
890-2748-14	FS24	Total/NA	Solid	8015NM Prep	
890-2748-15	FS25	Total/NA	Solid	8015NM Prep	
890-2748-16	FS26	Total/NA	Solid	8015NM Prep	
MB 880-32130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

GC Semi VOA (Continued)

Prep Batch: 32130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-32130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2748-1 MS	FS11	Total/NA	Solid	8015NM Prep	
890-2748-1 MSD	FS11	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Total/NA	Solid	8015 NM	
890-2748-2	FS12	Total/NA	Solid	8015 NM	
890-2748-3	FS13	Total/NA	Solid	8015 NM	
890-2748-4	FS14	Total/NA	Solid	8015 NM	
890-2748-5	FS15	Total/NA	Solid	8015 NM	
890-2748-6	FS16	Total/NA	Solid	8015 NM	
890-2748-7	FS17	Total/NA	Solid	8015 NM	
890-2748-8	FS18	Total/NA	Solid	8015 NM	
890-2748-9	FS19	Total/NA	Solid	8015 NM	
890-2748-10	FS20	Total/NA	Solid	8015 NM	
890-2748-11	FS21	Total/NA	Solid	8015 NM	
890-2748-12	FS22	Total/NA	Solid	8015 NM	
890-2748-13	FS23	Total/NA	Solid	8015 NM	
890-2748-14	FS24	Total/NA	Solid	8015 NM	
890-2748-15	FS25	Total/NA	Solid	8015 NM	
890-2748-16	FS26	Total/NA	Solid	8015 NM	
890-2748-17	FS27	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Soluble	Solid	DI Leach	
890-2748-2	FS12	Soluble	Solid	DI Leach	
890-2748-3	FS13	Soluble	Solid	DI Leach	
890-2748-4	FS14	Soluble	Solid	DI Leach	
890-2748-5	FS15	Soluble	Solid	DI Leach	
890-2748-6	FS16	Soluble	Solid	DI Leach	
890-2748-7	FS17	Soluble	Solid	DI Leach	
890-2748-8	FS18	Soluble	Solid	DI Leach	
890-2748-9	FS19	Soluble	Solid	DI Leach	
890-2748-10	FS20	Soluble	Solid	DI Leach	
890-2748-11	FS21	Soluble	Solid	DI Leach	
890-2748-12	FS22	Soluble	Solid	DI Leach	
890-2748-13	FS23	Soluble	Solid	DI Leach	
890-2748-14	FS24	Soluble	Solid	DI Leach	
890-2748-15	FS25	Soluble	Solid	DI Leach	
890-2748-16	FS26	Soluble	Solid	DI Leach	
890-2748-17	FS27	Soluble	Solid	DI Leach	
MB 880-32343/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32343/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32343/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2748-1 MS	FS11	Soluble	Solid	DI Leach	
890-2748-1 MSD	FS11	Soluble	Solid	DI Leach	
890-2748-11 MS	FS21	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

HPLC/IC (Continued)

Leach Batch: 32343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-11 MSD	FS21	Soluble	Solid	DI Leach	

Analysis Batch: 32439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2748-1	FS11	Soluble	Solid	300.0	32343
890-2748-2	FS12	Soluble	Solid	300.0	32343
890-2748-3	FS13	Soluble	Solid	300.0	32343
890-2748-4	FS14	Soluble	Solid	300.0	32343
890-2748-5	FS15	Soluble	Solid	300.0	32343
890-2748-6	FS16	Soluble	Solid	300.0	32343
890-2748-7	FS17	Soluble	Solid	300.0	32343
890-2748-8	FS18	Soluble	Solid	300.0	32343
890-2748-9	FS19	Soluble	Solid	300.0	32343
890-2748-10	FS20	Soluble	Solid	300.0	32343
890-2748-11	FS21	Soluble	Solid	300.0	32343
890-2748-12	FS22	Soluble	Solid	300.0	32343
890-2748-13	FS23	Soluble	Solid	300.0	32343
890-2748-14	FS24	Soluble	Solid	300.0	32343
890-2748-15	FS25	Soluble	Solid	300.0	32343
890-2748-16	FS26	Soluble	Solid	300.0	32343
890-2748-17	FS27	Soluble	Solid	300.0	32343
MB 880-32343/1-A	Method Blank	Soluble	Solid	300.0	32343
LCS 880-32343/2-A	Lab Control Sample	Soluble	Solid	300.0	32343
LCSD 880-32343/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32343
890-2748-1 MS	FS11	Soluble	Solid	300.0	32343
890-2748-1 MSD	FS11	Soluble	Solid	300.0	32343
890-2748-11 MS	FS21	Soluble	Solid	300.0	32343
890-2748-11 MSD	FS21	Soluble	Solid	300.0	32343

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS11

Date Collected: 08/11/22 12:30
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-1
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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 13:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 11:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 13:38	CH	EET MID

Client Sample ID: FS12

Date Collected: 08/11/22 12:35
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-2
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	32569	08/24/22 16:09	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32815	08/25/22 13:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 12:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 14:05	CH	EET MID

Client Sample ID: FS13

Date Collected: 08/11/22 12:40
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 15:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 12:48	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 14:15	CH	EET MID

Client Sample ID: FS14

Date Collected: 08/11/22 12:45
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-4
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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 16:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS14

Lab Sample ID: 890-2748-4
Matrix: Solid
Date Collected: 08/11/22 12:45
Date Received: 08/12/22 13:51

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			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 13:10	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 14:24	CH	EET MID

Client Sample ID: FS15

Lab Sample ID: 890-2748-5
Matrix: Solid
Date Collected: 08/11/22 12:50
Date Received: 08/12/22 13:51

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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 16:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 13:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 14:33	CH	EET MID

Client Sample ID: FS16

Lab Sample ID: 890-2748-6
Matrix: Solid
Date Collected: 08/11/22 12:55
Date Received: 08/12/22 13:51

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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 16:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 13:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:01	CH	EET MID

Client Sample ID: FS17

Lab Sample ID: 890-2748-7
Matrix: Solid
Date Collected: 08/11/22 13:00
Date Received: 08/12/22 13:51

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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 17:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 14:14	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS17
Date Collected: 08/11/22 13:00
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-7
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 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:10	CH	EET MID

Client Sample ID: FS18
Date Collected: 08/11/22 13:05
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 17:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 14:35	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:19	CH	EET MID

Client Sample ID: FS19
Date Collected: 08/11/22 13:10
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 17:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 14:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:28	CH	EET MID

Client Sample ID: FS20
Date Collected: 08/11/22 13:15
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32564	08/20/22 11:48	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32814	08/24/22 16:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 15:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:37	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS21

Lab Sample ID: 890-2748-11
Matrix: Solid
Date Collected: 08/11/22 13:20
Date Received: 08/12/22 13:51

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	32568	08/20/22 15:24	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32832	08/25/22 18:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 16:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 15:47	CH	EET MID

Client Sample ID: FS22

Lab Sample ID: 890-2748-12
Matrix: Solid
Date Collected: 08/11/22 13:25
Date Received: 08/12/22 13:51

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	32923	08/25/22 09:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32929	08/25/22 19:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 16:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 16:14	CH	EET MID

Client Sample ID: FS23

Lab Sample ID: 890-2748-13
Matrix: Solid
Date Collected: 08/11/22 13:30
Date Received: 08/12/22 13:51

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	32923	08/25/22 09:55	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32929	08/25/22 19:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 16:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 16:24	CH	EET MID

Client Sample ID: FS24

Lab Sample ID: 890-2748-14
Matrix: Solid
Date Collected: 08/11/22 13:35
Date Received: 08/12/22 13:51

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	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 05:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS24
Date Collected: 08/11/22 13:35
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-14
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			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 17:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 16:51	CH	EET MID

Client Sample ID: FS25
Date Collected: 08/11/22 13:40
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-15
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			5.03 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 05:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 17:30	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 17:00	CH	EET MID

Client Sample ID: FS26
Date Collected: 08/11/22 13:45
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-16
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			4.99 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 06:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32130	08/15/22 08:30	DM	EET MID
Total/NA	Analysis	8015B NM		1			32127	08/15/22 17:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 17:10	CH	EET MID

Client Sample ID: FS27
Date Collected: 08/11/22 13:50
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-17
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			5.01 g	5 mL	32833	08/24/22 10:17	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32836	08/25/22 08:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32917	08/25/22 09:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			32243	08/16/22 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32109	08/15/22 10:00	DM	EET MID
Total/NA	Analysis	8015B NM		1			32125	08/15/22 19:17	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Client Sample ID: FS27

Date Collected: 08/11/22 13:50
Date Received: 08/12/22 13:51

Lab Sample ID: 890-2748-17

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	32343	08/17/22 09:41	CH	EET MID
Soluble	Analysis	300.0		1			32439	08/19/22 17:19	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Los Medanos

Job ID: 890-2748-1
SDG: 03E1558007

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2748-1	FS11	Solid	08/11/22 12:30	08/12/22 13:51	1'
890-2748-2	FS12	Solid	08/11/22 12:35	08/12/22 13:51	1'
890-2748-3	FS13	Solid	08/11/22 12:40	08/12/22 13:51	1'
890-2748-4	FS14	Solid	08/11/22 12:45	08/12/22 13:51	1'
890-2748-5	FS15	Solid	08/11/22 12:50	08/12/22 13:51	1'
890-2748-6	FS16	Solid	08/11/22 12:55	08/12/22 13:51	1'
890-2748-7	FS17	Solid	08/11/22 13:00	08/12/22 13:51	1'
890-2748-8	FS18	Solid	08/11/22 13:05	08/12/22 13:51	1'
890-2748-9	FS19	Solid	08/11/22 13:10	08/12/22 13:51	1'
890-2748-10	FS20	Solid	08/11/22 13:15	08/12/22 13:51	1'
890-2748-11	FS21	Solid	08/11/22 13:20	08/12/22 13:51	1'
890-2748-12	FS22	Solid	08/11/22 13:25	08/12/22 13:51	1'
890-2748-13	FS23	Solid	08/11/22 13:30	08/12/22 13:51	1'
890-2748-14	FS24	Solid	08/11/22 13:35	08/12/22 13:51	1'
890-2748-15	FS25	Solid	08/11/22 13:40	08/12/22 13:51	1'
890-2748-16	FS26	Solid	08/11/22 13:45	08/12/22 13:51	1'
890-2748-17	FS27	Solid	08/11/22 13:50	08/12/22 13:51	1'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garret Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	Garret.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:	Los Medanos	**Turn Around**	
Project Number:	03E1558007	☑ Routine ☐ Rush	
Project Location:	32.2592, -103.8374	Due Date:	
Sampler's Name:	Kase 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:	IWM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	8.2
Total Containers:		Corrected Temperature:	8.0

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
FS11	S	8/11/2022	12:30	1'				x	x	x
FS12	S	8/11/2022	12:35	1'				x	x	x
FS13	S	8/11/2022	12:40	1'				x	x	x
FS14	S	8/11/2022	12:45	1'				x	x	x
FS15	S	8/11/2022	12:50	1'				x	x	x
FS16	S	8/11/2022	12:55	1'				x	x	x
FS17	S	8/11/2022	13:00	1'				x	x	x
FS18	S	8/11/2022	13:05	1'				x	x	x
FS19	S	8/11/2022	13:10	1'				x	x	x
FS20	S	8/11/2022	13:15	1'				x	x	x

Sample Comments

Incident ID: nAPP2204835360
Cost Center: 2094371001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag 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		8.12.22 1351	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garret Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	Garret.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:	Los Medanos	Turn Around	
Project Number:	03E1558007	☑ Routine ☐ Rush	
Project Location:	32.2592, -103.8374	Due Date:	
Sampler's Name:	Kase 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:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021
FS21	S	8/11/2022	13:20	1'				x	x	x
FS22	S	8/11/2022	13:25	1'				x	x	x
FS23	S	8/11/2022	13:30	1'				x	x	x
FS24	S	8/11/2022	13:35	1'				x	x	x
FS25	S	8/11/2022	13:40	1'				x	x	x
FS26	S	8/11/2022	13:45	1'				x	x	x
FS27	S	8/11/2022	13:50	1'				x	x	x

ANALYSIS REQUEST

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 Comments

Incident ID:
nAPP2204835360
Cost Center:
2094371001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag 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			8.12.22 1351			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2748-1
SDG Number: 03E1558007

Login Number: 2748
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: 890-2748-1
SDG Number: 03E1558007

Login Number: 2748
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/15/22 08:36 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 D

NMOCD Notifications

Green, Garrett J

From: Baker, Adrian
Sent: Friday, April 15, 2022 8:27 AM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Hensley, Chad, EMNRD; Hamlet, Robert, EMNRD
Cc: DelawareSpills /SM; Green, Garrett J
Subject: XTO Site Activities for the week of April 18th

Follow Up Flag: Follow up
Flag Status: Flagged

All,

XTO plans to complete final sampling activities at the following sites the week of April 18, 2022.

Tuesday
- JRU Legg / nAPP2204943884

Wednesday
- PLU RR 33-25-30 / nAPP2204125212
- Los Medanos / nAPP2204835360

Thursday
- Los Medanos / nAPP2204835360

Friday
- Pierce Canyon 32 / nAPP2205254615

Thank you,

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

From: Aimee Cole
To: adrian.baker@exxonmobil.com; garrett.green@exxonmobil.com
Cc: Tacoma Morrissey; Kalei Jennings; Ben Belill; Ashley Ager
Subject: XTO - Sampling Notification (week of 4/18-22 - 4/22/22)
Date: Thursday, April 14, 2022 12:55:23 PM
Attachments: image001.png
image002.png
image003.png
image004.png

Adrian and Garrett,
Please see the below email for NMOCD sampling notification.

- We will send follow up emails shortly to coordinate flare shutdowns, liner repairs, and provide a work authorization schedule.
- In future weeks, we will send the NMOCD sampling notification and work authorization emails to XTO on Wednesdays.

All,

XTO plans to complete final sampling activities at the following sites the week of April 18, 2022.

Tuesday

- JRU Legg / nAPP2204943884

Wednesday

- PLU RR 33-25-30 / nAPP2204125212
- Los Medanos / nAPP2204835360

Thursday

- Los Medanos / nAPP2204835360

Friday

- Pierce Canyon 32 / nAPP2205254615

Thank you,

Aimee Cole
Senior Managing Scientist
720-384-7365
Ensolum, LLC

From: Green, Garrett J
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc: Tacoma Morrissey; Aimee Cole
Subject: Remediation Work Plan - Los Medanos (Incident ID nAPP2204835360)
Date: Friday, June 24, 2022 11:45:32 AM

[**EXTERNAL EMAIL**]

NMOCD,

The subject Remediation Work Plan was submitted to the NMOCD portal on May 3, 2022. Following the submittal, XTO proceeded to obtain permission from the New Mexico State Land Office (SLO) to access off pad soils, per the Work Plan. The SLO has approved the Right of Entry (ROE) request, however the executed permit is only valid for 180 days. Would NMOCD please consider reviewing and responding to the Work Plan before August 1, 2022 in order to provide enough time to complete remediation activities before the ROE permit expires?

Thanks,

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: Collins, Melanie
To: DelawareSpills /SM
Cc: Aimee Cole; Kalei Jennings; Tacoma Morrissey; Ben Belill; Pennington, Shelby G
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 103612
Date: Monday, June 27, 2022 12:31:05 PM

[**EXTERNAL EMAIL**]

Please see the approval from R Hamlet below for the Los Medanos Battery Work Plan.

From: OCDOnline@state.nm.us [mailto:OCDOnline@state.nm.us]
Sent: Monday, June 27, 2022 11:50 AM
To: Collins, Melanie <melanie.collins@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 103612

External Email - Think Before You Click

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2204835360, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH. A variance is approved for 400 ft2 floor confirmation samples. Sidewall confirmation samples should be collected every 200 ft2. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. The work will need to occur in 90 days after the work plan has been approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

From: Green, Garrett J
To: ocd.enviro@state.nm.us; mike.bratcher@state.nm.us; Hamlet, Robert, EMNRD
Cc: DelawareSpills /SM; Tacoma Morrissey
Subject: XTO - Sampling Notification (Week of 8/8/22 - 8/12/22)
Date: Thursday, August 4, 2022 2:56:32 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of August 8, 2022.

Monday

Tuesday
- Los Medanos Tank Battery / nAPP2204835360

Wednesday
- Los Medanos Tank Battery / nAPP2204835360

Thursday
- Los Medanos Tank Battery / nAPP2204835360

Friday
- Los Medanos Tank Battery / nAPP2204835360

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

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

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

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

CONDITIONS

Action 145789

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 145789
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Please note that closure samples must be received at a temperature below 4 degrees F. The samples received on 8/10/2002 were recorded at 24.5 degrees F and the samples received on 8-12-2022 were recorded at 8 degrees F.	12/14/2022