

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	NAPP2201947871
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Oil Conservation Division

Incident ID	NAPP2201947871
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and the environment.	
☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
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: _____	Title: _____
Signature: <u>Adrian Bales</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>10/21/2022</u>

NAPP2201947871

Location:	Outrider Central Tank Battery	
Spill Date:	1/15/2022	
Area 1		
Approximate Area =	1819.20	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.20	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	10.87	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	10.87	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.07	bbls

Incident ID	NAPP2201947871
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Site Assessment/Characterization

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

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Adrian Baker Title: Environmental CoordinatorSignature: Adrian Baker Date: 4/15/2022email: adrian.baker@exxonmobil.com Telephone: 432-236-3808**OCD Only**

Received by: _____ Date: _____

Incident ID	NAPP2201947871
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Application ID	

Closure

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

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

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

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

Printed Name: Adrian Baker Title: Environmental Coordinator
Signature: Adrian Baker Date: 4/15/2022
email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 05/03/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



April 15, 2022

District 1
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240

**Re: Closure Request
Outrider Central Tank Battery
Incident Number NAPP2201947871
Lea 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 Outrider Central Tank Battery (CTB) (Site) in Unit B, Section 28, Township 24 South, Range 32 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2201947871.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.19464° N, 103.67941°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On January 15, 2022, corrosion of the heater treater fire tube resulted in the release of 10.87 barrels (bbls) of produced water onto the well pad and into the adjacent pasture south of the pad. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 0.07 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on January 19, 2022. The release was assigned Incident Number NAPP2201947871.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is USGS well 321005103402301, located approximately 1.5 miles southeast of the

Site. The groundwater well has a reported depth to groundwater of 289 feet bgs and a total depth of 367 feet bgs. Ground surface elevation at the groundwater well location is 3,499 feet above mean sea level (amsl), which is approximately 50 feet lower in elevation than the Site. There are additional water wells located greater than 1 mile north of the Site. While depth to water in one of those wells is shallow, it is separated from the Site by a topographic rise and appears to be associated with a surface water pond. The pond likely generates shallow groundwater associated with the surface water storage and is not necessarily associated with a groundwater aquifer. Groundwater at the Site is more likely to be represented by the data point south of the Site, which does not exhibit nearby surface water storage. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 1,130 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 22, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight preliminary assessment soil samples (SS01 through SS08) were collected within and around the release extent from a depth of 0.5 feet bgs, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil samples SS02 and SS03, collected within the pasture release area, indicated that chloride concentrations exceeded the reclamation standard. Laboratory analytical results for preliminary soil sample SS01, collected within the on-pad release area, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS04 through SS08, collected around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and reclamation standards, and successfully defined the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On March 31, 2022, Ensolum personnel were at the Site to oversee delineation and excavation activities. Three potholes (PH01 through PH03) were advanced via backhoe within the release extent to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 4 feet bgs. Delineation soil samples were collected from each pothole from depths ranging from 1 foot to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix B. The pothole and delineation soil sample locations are depicted on Figure 3.

Upon completion of delineation activities, 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 aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to depths ranging from 1-foot to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW04 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. Composite soil samples FS01 through FS12 were collected from the floor of the excavation from depths ranging from 1-foot to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 2,400 square feet. A total of approximately 220 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH02 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards in samples collected in the pasture from the top four feet of the subsurface. Laboratory analytical results for the delineation soil samples collected from depths of 1-foot to 3 feet bgs from pothole PH03, indicated that chloride

Outrider CTB



concentrations exceeded the reclamation standard. The terminal depth sample, collected at 4 feet bgs, was compliant.

Laboratory analytical results for excavation sidewall samples SW01 through SW04 and excavation floor samples FS01 through FS12 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the reclamation standards. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 15, 2022, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. 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 NAPP2201947871.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in cursive script that reads "Kalei Jennings".

Kalei Jennings
Senior Scientist

A handwritten signature in cursive script that reads "Aimee Cole".

Aimee Cole
Senior Managing Scientist

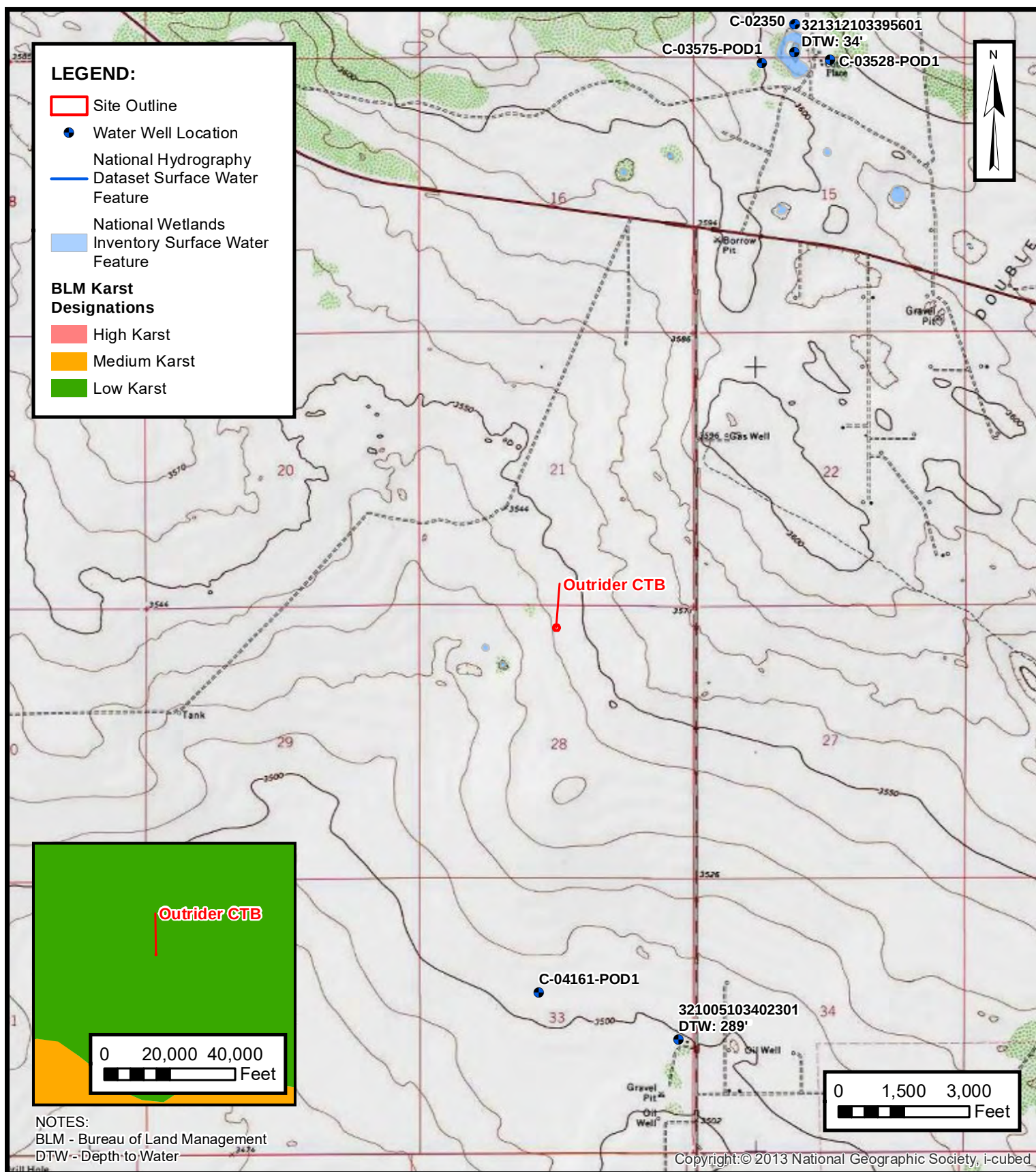
cc: Adrian Baker, XTO
Bureau of Land Management

Appendices:

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



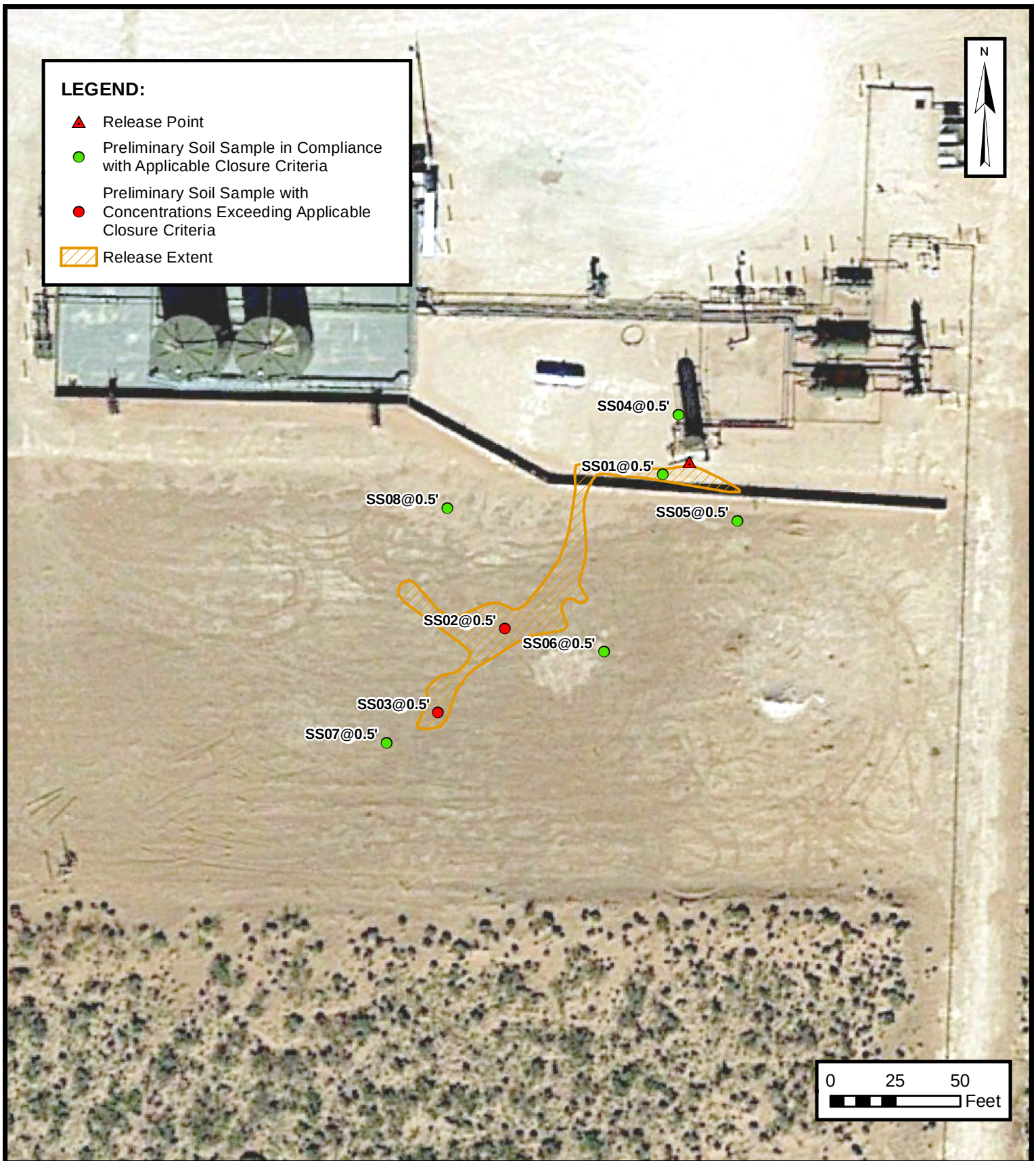
FIGURES



SITE RECEPTOR MAP

XTO ENERGY, INC
OUTRIDER CTB
Incident ID NAPP2201947871
Unit B Sec 28 T24S R32E
Lea County, New Mexico

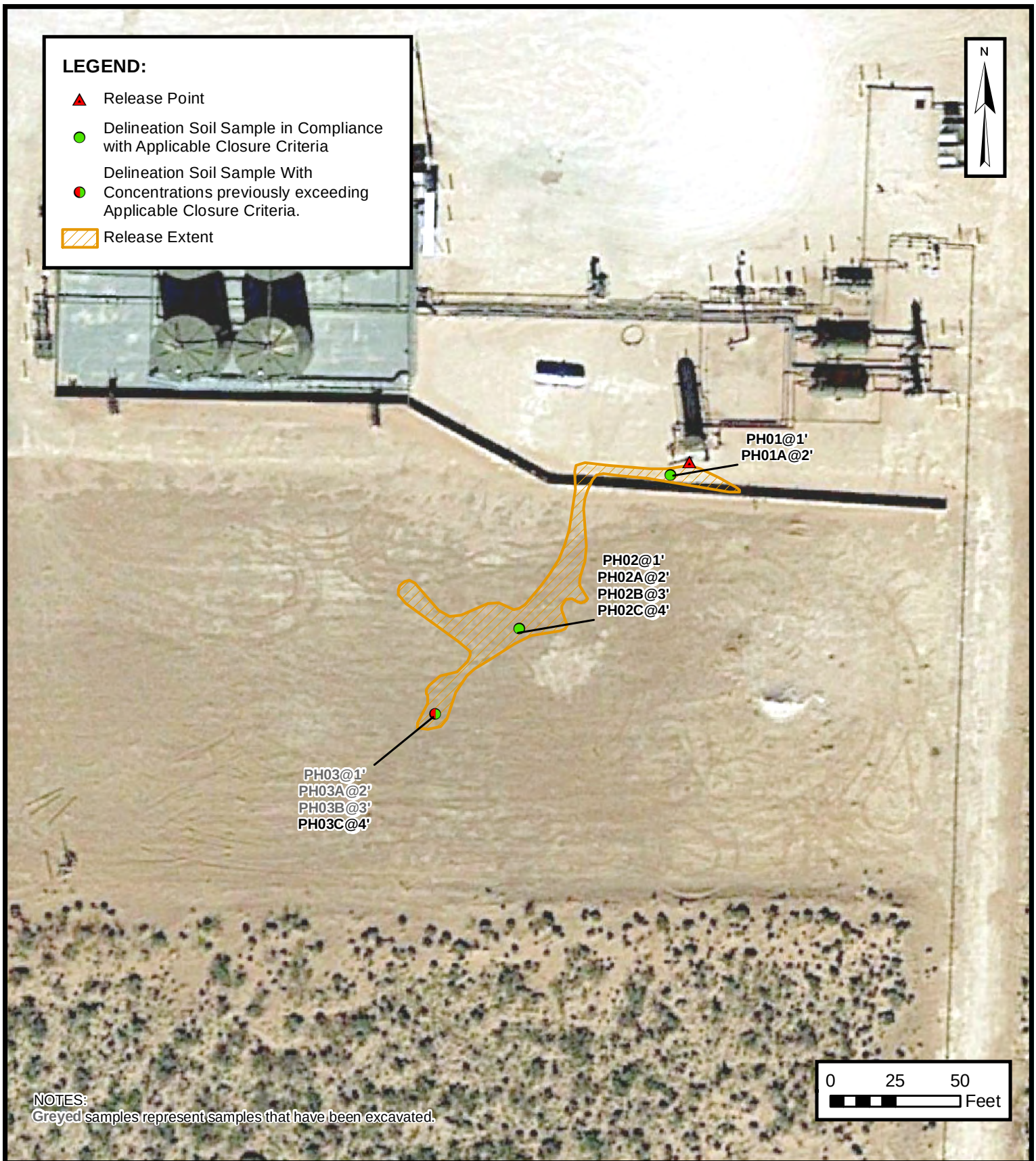
FIGURE
1



PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
OUTRIDER CTB
Incident ID NAPP2201947871
Unit B Sec 28 T24S R32E
Lea County, New Mexico

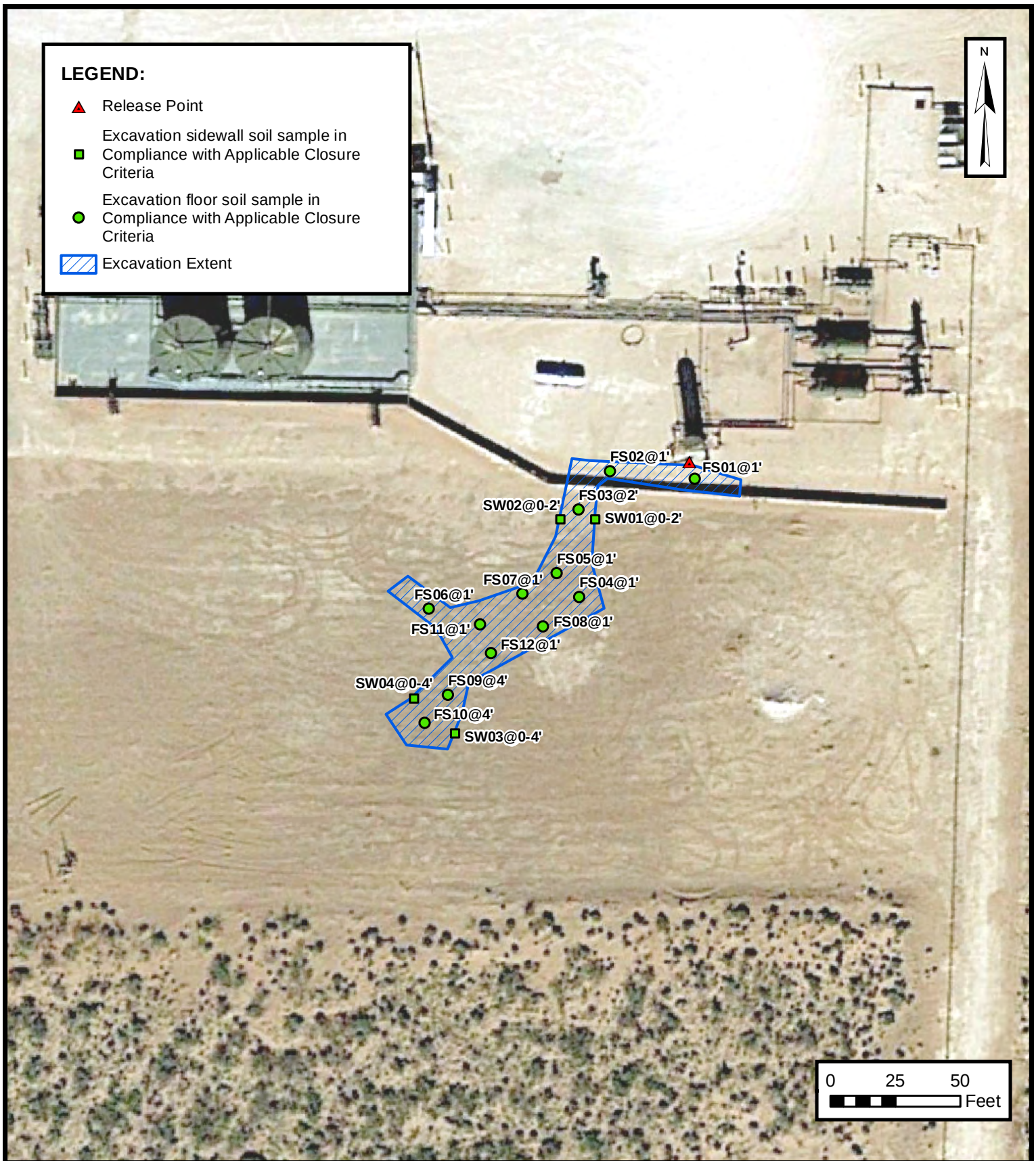
FIGURE
2



DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
OUTRIDER CTB
Incident ID NAPP2201947871
Unit B Sec 28 T24S R32E
Lea County, New Mexico

FIGURE
3



EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
 OUTRIDER CTB
 Incident ID NAPP2201947871
 Unit B Sec 28 T24S R32E
 Lea County, New Mexico

FIGURE

4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Outrider CTB
 XTO Energy, Inc.
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Assessment Soil Samples										
SS01	02/22/2022	0.5	<0.00201	<0.00402	<49.9	102	<49.9	102	102	12,800
SS02	02/22/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7,190*
SS03	02/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,010*
SS04	02/22/2022	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	10.7
SS05	02/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	15.8*
SS06	02/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9.76*
SS07	02/22/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00*
SS08	02/22/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	6.60*
Delineation Soil Samples										
PH01	03/31/2022	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	<5.00
PH01A	03/31/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	7.95
PH02	03/31/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	46.3*
PH02A	03/31/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.0*
PH02B	03/31/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	25.7*
PH02C	03/31/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	84.3*
PH03	03/31/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,350*
PH03A	03/31/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	8,520*
PH03B	03/31/2022	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,400*
PH03C	03/31/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	423*
Excavation Floor Soil Samples										
FS01	03/31/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	42.2
FS02	03/31/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9.55
FS03	03/31/2022	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	32.2*
FS04	03/31/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8.17*
FS05	03/31/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	140*
FS06	03/31/2022	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	5.52*
FS07	03/31/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8.31*
FS08	03/31/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.7*
FS09	03/31/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	10.1*
FS10	03/31/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97*
FS11	03/31/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	9.97*
FS12	03/31/2022	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99*



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Outrider CTB
 XTO Energy, Inc.
 Lea 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 Sidewall Soil Samples										
SW01	03/31/2022	0 - 2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	8.3*
SW02	03/31/2022	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	26.8*
SW03	03/31/2022	0 - 4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00*
SW04	03/31/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8.45*

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321005103402301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321005103402301 24S.32E.33.42241

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

The depth of the well is 367 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

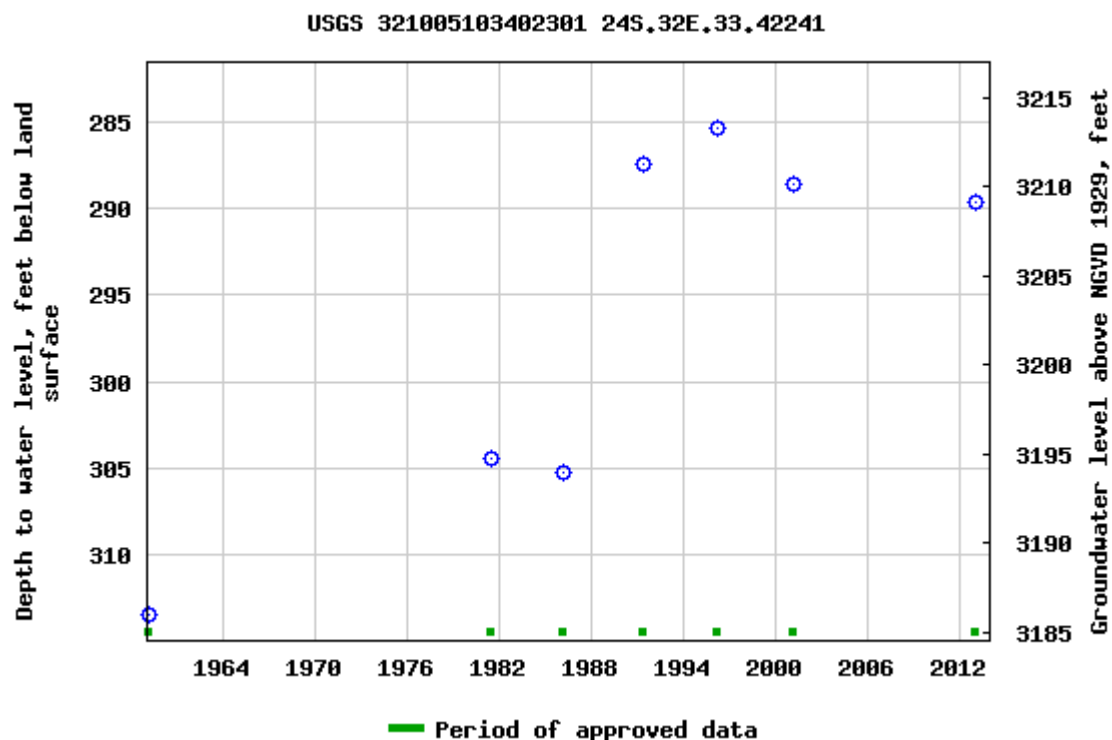
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-02-25 13:57:41 EST

0.54 0.47 nadww01





APPENDIX B

Lithologic Soil Sampling Logs

		Sample Name: PH01		Date: 3-31-2022				
		Site Name: Outrider CTB						
		Incident Number: NAPP2201947871						
		Job Number: 03C1558001						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.194621,-103.679434			Logged By: BB		Method: Trackhoe			
			Hole Diameter: N/A		Total Depth: 2			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<124	0.5	N	PH01	1	1	CCHE (fill)	0-1', CALICHE, moist, tan-off white, unconsolidated, some sub-round small and large gravel, no stain, no odor, fill.
							SP	1'-2', SAND, moist, reddish brown, poorly graded, fine grain, trace roots, no stain, no odor.
D	<124	0.5	N	PH01A	2	2	TD	Total depth @ 2 feet below ground surface.

		Sample Name: PH02		Date: 3-31-2022				
		Site Name: Outrider CTB						
		Incident Number: NAPP2201947871						
		Job Number: 03C1558001						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.194484, -103.679594				Logged By: BB		Method: Trackhoe		
				Hole Diameter: N/A		Total Depth: 5		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<124	0.4	N	PH02	1	1	SP	0-2', SAND, moist, reddish brown, poorly graded, fine - very fine grain, trace roots, no stain, no odor.
D	<124	0.8	N	PH02A	2	2		2'-3', roots absent.
D	<124	0.6	N	PH02B	3	3	CCHE	3'-5', CALICHE, moist, tan-off white, poorly consolidated, silty, no stain, no odor.
D	<124	0.6	N	PH02C	4	4		
D	<124	0.5	N	PH02D	5	5		
							TD	Total Depth @ 5' below ground surface.

		Sample Name: PH03		Date: 3-31-2022				
		Site Name: Outrider CTB						
		Incident Number: NAPP2201947871						
		Job Number: 03C1558001						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.194409, -103.679682				Logged By: BB		Method: Trackhoe		
				Hole Diameter: N/A		Total Depth: 5		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	5,068	0.5	N	PH03	1	1	SP	0-2', SAND, moist, reddish brown, poorly graded, fine - very fine grain, trace roots, no stain, no odor.
D	7,540	0.6	N	PH03A	2	2		2'-3', roots absent.
D	1,534	0.5	N	PH03B	3	3	CCHE	3'-5', CALICHE, moist, tan-off white, poorly consolidated, silty, no stain, no odor.
D	498	0.8	N	PH03C	4	4		
D	<124	0.8	N	PH03D	5	5		
							TD	Total Depth @ 5' below ground surface.



APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.

Outrider CTB

Incident Number nAPP2201947871



Photograph 1

Date: 3-31-2022

Description: North facing view of excavation.



Photograph 2

Date: 3-31-2022

Description: West facing view of excavation on-pad.



Photograph 3

Date: 3-31-2022

Description: West facing view of pasture excavation.



Photograph 4

Date: 3-31-2022

Description: North facing view of pasture excavation.



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2004-1

Laboratory Sample Delivery Group: NAPP2201947871

Client Project/Site: OUTRIDER CTB

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Benjamin Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/2/2022 7:33:19 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Laboratory Job ID: 890-2004-1
SDG: NAPP2201947871

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Job ID: 890-2004-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2004-1

Receipt

The samples were received on 2/23/2022 11:26 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 1.6°C

GC VOA

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

GC Semi VOA

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 880-20218 and analytical batch 880-20355 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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS04

Lab Sample ID: 890-2004-1

Date Collected: 02/22/22 12:23

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/01/22 10:00	03/02/22 04:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/01/22 10:00	03/02/22 04:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/01/22 10:00	03/02/22 04:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/01/22 10:00	03/02/22 04:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/01/22 10:00	03/02/22 04:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/01/22 10:00	03/02/22 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/01/22 10:00	03/02/22 04:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/01/22 10:00	03/02/22 04:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/02/22 20:11	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			02/28/22 13:11	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		02/25/22 08:25	02/25/22 14:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 14:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	02/25/22 08:25	02/25/22 14:42	1
o-Terphenyl	108		70 - 130	02/25/22 08:25	02/25/22 14:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		4.99	mg/Kg			02/27/22 16:28	1

Client Sample ID: SS05

Lab Sample ID: 890-2004-2

Date Collected: 02/22/22 12:24

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 04:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 04:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 04:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/01/22 10:00	03/02/22 04:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 04:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/22 10:00	03/02/22 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/01/22 10:00	03/02/22 04:43	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS05

Lab Sample ID: 890-2004-2

Date Collected: 02/22/22 12:24

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	03/01/22 10:00	03/02/22 04:43	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			03/02/22 20:11	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			02/28/22 13:11	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		02/25/22 08:25	02/25/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 15:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/25/22 08:25	02/25/22 15:44	1
o-Terphenyl	92		70 - 130			02/25/22 08:25	02/25/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.8		5.02	mg/Kg			02/27/22 16:37	1

Client Sample ID: SS06

Lab Sample ID: 890-2004-3

Date Collected: 02/22/22 12:27

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 10:00	03/02/22 05:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 10:00	03/02/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/01/22 10:00	03/02/22 05:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/01/22 10:00	03/02/22 05:04	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			03/02/22 20:11	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			02/28/22 13:11	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS06

Lab Sample ID: 890-2004-3

Date Collected: 02/22/22 12:27

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 16:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 16:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			02/25/22 08:25	02/25/22 16:04	1
o-Terphenyl	94		70 - 130			02/25/22 08:25	02/25/22 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.76		4.98	mg/Kg			02/27/22 16:46	1

Client Sample ID: SS07

Lab Sample ID: 890-2004-4

Date Collected: 02/22/22 12:29

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 10:00	03/02/22 05:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/01/22 10:00	03/02/22 05:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130			03/01/22 10:00	03/02/22 05:24	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			03/02/22 20:11	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			02/28/22 13:11	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		02/25/22 08:25	02/25/22 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			02/25/22 08:25	02/25/22 16:24	1
o-Terphenyl	97		70 - 130			02/25/22 08:25	02/25/22 16:24	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS07

Lab Sample ID: 890-2004-4

Date Collected: 02/22/22 12:29

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/27/22 16:54	1

Client Sample ID: SS08

Lab Sample ID: 890-2004-5

Date Collected: 02/22/22 12:31

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/22 10:00	03/02/22 05:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/01/22 10:00	03/02/22 05:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130			03/01/22 10:00	03/02/22 05:45	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			03/02/22 20:11	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			02/28/22 13:11	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		02/25/22 08:25	02/25/22 16:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 16:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 16:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			02/25/22 08:25	02/25/22 16:45	1
o-Terphenyl	92		70 - 130			02/25/22 08:25	02/25/22 16:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.60	F1	5.00	mg/Kg			03/01/22 01:35	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1991-A-1-E MS	Matrix Spike	101	101
890-1991-A-1-F MSD	Matrix Spike Duplicate	101	100
890-2004-1	SS04	106	100
890-2004-2	SS05	105	99
890-2004-3	SS06	108	101
890-2004-4	SS07	108	100
890-2004-5	SS08	109	91
LCS 880-20516/1-A	Lab Control Sample	100	100
LCSD 880-20516/2-A	Lab Control Sample Dup	98	100
MB 880-20516/5-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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2004-1	SS04	111	108
890-2004-1 MS	SS04	94	81
890-2004-1 MSD	SS04	92	80
890-2004-2	SS05	95	92
890-2004-3	SS06	99	94
890-2004-4	SS07	100	97
890-2004-5	SS08	96	92
LCS 880-20293/2-A	Lab Control Sample	80	81
LCSD 880-20293/3-A	Lab Control Sample Dup	103	104
MB 880-20293/1-A	Method Blank	105	115
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20516/5-A

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20516

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:00	03/01/22 22:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:00	03/01/22 22:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:00	03/01/22 22:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 10:00	03/01/22 22:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 10:00	03/01/22 22:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 10:00	03/01/22 22:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/01/22 10:00	03/01/22 22:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/01/22 10:00	03/01/22 22:30	1

Lab Sample ID: LCS 880-20516/1-A

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09841		mg/Kg		98	70 - 130
Toluene	0.100	0.09691		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09431		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09516		mg/Kg		95	70 - 130

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

Lab Sample ID: LCSD 880-20516/2-A

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20516

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09840		mg/Kg		98	70 - 130	0	35
Toluene	0.100	0.09502		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.09401		mg/Kg		94	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	1	35
o-Xylene	0.100	0.09419		mg/Kg		94	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1991-A-1-E MS

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.100	0.08390		mg/Kg		84	70 - 130
Toluene	<0.00198	U	0.100	0.07892		mg/Kg		78	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

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

Lab Sample ID: 890-1991-A-1-E MS

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.100	0.07572		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1593		mg/Kg		79	70 - 130
o-Xylene	<0.00198	U	0.100	0.08156		mg/Kg		81	70 - 130

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

Lab Sample ID: 890-1991-A-1-F MSD

Matrix: Solid

Analysis Batch: 20576

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0992	0.08432		mg/Kg		85	70 - 130	1	35
Toluene	<0.00198	U	0.0992	0.07784		mg/Kg		78	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.0992	0.07441		mg/Kg		74	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1563		mg/Kg		78	70 - 130	2	35
o-Xylene	<0.00198	U	0.0992	0.08027		mg/Kg		80	70 - 130	2	35

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

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

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

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		02/25/22 08:25	02/25/22 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/25/22 08:25	02/25/22 12:36	1
o-Terphenyl	115		70 - 130	02/25/22 08:25	02/25/22 12:36	1

Lab Sample ID: LCS 880-20293/2-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	797.2		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.5		mg/Kg		93	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

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

Lab Sample ID: LCS 880-20293/2-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20293

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: LCSD 880-20293/3-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20293

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	821.5		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1019		mg/Kg		102	70 - 130	9	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	104		70 - 130								

Lab Sample ID: 890-2004-1 MS

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 20293

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1240		mg/Kg		124	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1269		mg/Kg		127	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	81		70 - 130								

Lab Sample ID: 890-2004-1 MSD

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 20293

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1205		mg/Kg		121	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1237		mg/Kg		124	70 - 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	80		70 - 130								

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20218/1-A

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/01/22 01:15	1

Lab Sample ID: LCS 880-20218/2-A

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	273.3		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-20218/3-A

Matrix: Solid

Analysis Batch: 20355

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	271.3		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-2004-5 MS

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: SS08

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.60	F1	250	292.1	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-2004-5 MSD

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: SS08

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.60	F1	250	292.8	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: MB 880-20217/1-A

Matrix: Solid

Analysis Batch: 20409

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			02/27/22 12:29	1

Lab Sample ID: LCS 880-20217/2-A

Matrix: Solid

Analysis Batch: 20409

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	252.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-20217/3-A

Matrix: Solid

Analysis Batch: 20409

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	252.6		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2003-A-5-C MS

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 20409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	365		253	614.6		mg/Kg		99	90 - 110

Lab Sample ID: 890-2003-A-5-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 20409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	365		253	611.6		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

GC VOA

Prep Batch: 20516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	5035	
890-2004-2	SS05	Total/NA	Solid	5035	
890-2004-3	SS06	Total/NA	Solid	5035	
890-2004-4	SS07	Total/NA	Solid	5035	
890-2004-5	SS08	Total/NA	Solid	5035	
MB 880-20516/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20516/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1991-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1991-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	8021B	20516
890-2004-2	SS05	Total/NA	Solid	8021B	20516
890-2004-3	SS06	Total/NA	Solid	8021B	20516
890-2004-4	SS07	Total/NA	Solid	8021B	20516
890-2004-5	SS08	Total/NA	Solid	8021B	20516
MB 880-20516/5-A	Method Blank	Total/NA	Solid	8021B	20516
LCS 880-20516/1-A	Lab Control Sample	Total/NA	Solid	8021B	20516
LCSD 880-20516/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20516
890-1991-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	20516
890-1991-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20516

Analysis Batch: 20742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	Total BTEX	
890-2004-2	SS05	Total/NA	Solid	Total BTEX	
890-2004-3	SS06	Total/NA	Solid	Total BTEX	
890-2004-4	SS07	Total/NA	Solid	Total BTEX	
890-2004-5	SS08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	8015NM Prep	
890-2004-2	SS05	Total/NA	Solid	8015NM Prep	
890-2004-3	SS06	Total/NA	Solid	8015NM Prep	
890-2004-4	SS07	Total/NA	Solid	8015NM Prep	
890-2004-5	SS08	Total/NA	Solid	8015NM Prep	
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2004-1 MS	SS04	Total/NA	Solid	8015NM Prep	
890-2004-1 MSD	SS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	8015B NM	20293
890-2004-2	SS05	Total/NA	Solid	8015B NM	20293

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QC Association Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

GC Semi VOA (Continued)

Analysis Batch: 20308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-3	SS06	Total/NA	Solid	8015B NM	20293
890-2004-4	SS07	Total/NA	Solid	8015B NM	20293
890-2004-5	SS08	Total/NA	Solid	8015B NM	20293
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015B NM	20293
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20293
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20293
890-2004-1 MS	SS04	Total/NA	Solid	8015B NM	20293
890-2004-1 MSD	SS04	Total/NA	Solid	8015B NM	20293

Analysis Batch: 20500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Total/NA	Solid	8015 NM	
890-2004-2	SS05	Total/NA	Solid	8015 NM	
890-2004-3	SS06	Total/NA	Solid	8015 NM	
890-2004-4	SS07	Total/NA	Solid	8015 NM	
890-2004-5	SS08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Soluble	Solid	DI Leach	
890-2004-2	SS05	Soluble	Solid	DI Leach	
890-2004-3	SS06	Soluble	Solid	DI Leach	
890-2004-4	SS07	Soluble	Solid	DI Leach	
MB 880-20217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2003-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2003-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 20218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-5	SS08	Soluble	Solid	DI Leach	
MB 880-20218/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20218/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20218/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2004-5 MS	SS08	Soluble	Solid	DI Leach	
890-2004-5 MSD	SS08	Soluble	Solid	DI Leach	

Analysis Batch: 20355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-5	SS08	Soluble	Solid	300.0	20218
MB 880-20218/1-A	Method Blank	Soluble	Solid	300.0	20218
LCS 880-20218/2-A	Lab Control Sample	Soluble	Solid	300.0	20218
LCSD 880-20218/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20218
890-2004-5 MS	SS08	Soluble	Solid	300.0	20218
890-2004-5 MSD	SS08	Soluble	Solid	300.0	20218

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

HPLC/IC

Analysis Batch: 20409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2004-1	SS04	Soluble	Solid	300.0	20217
890-2004-2	SS05	Soluble	Solid	300.0	20217
890-2004-3	SS06	Soluble	Solid	300.0	20217
890-2004-4	SS07	Soluble	Solid	300.0	20217
MB 880-20217/1-A	Method Blank	Soluble	Solid	300.0	20217
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	300.0	20217
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20217
890-2003-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	20217
890-2003-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20217

Lab Chronicle

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS04

Lab Sample ID: 890-2004-1

Date Collected: 02/22/22 12:23

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20516	03/01/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/02/22 04:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20500	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 14:42	AJ	XEN MID
Soluble	Leach	DI Leach			20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	20409	02/27/22 16:28	CH	XEN MID

Client Sample ID: SS05

Lab Sample ID: 890-2004-2

Date Collected: 02/22/22 12:24

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20516	03/01/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/02/22 04:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20500	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	20409	02/27/22 16:37	CH	XEN MID

Client Sample ID: SS06

Lab Sample ID: 890-2004-3

Date Collected: 02/22/22 12:27

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20516	03/01/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/02/22 05:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20500	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	20409	02/27/22 16:46	CH	XEN MID

Client Sample ID: SS07

Lab Sample ID: 890-2004-4

Date Collected: 02/22/22 12:29

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20516	03/01/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/02/22 05:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Client Sample ID: SS07**Lab Sample ID: 890-2004-4****Date Collected: 02/22/22 12:29****Matrix: Solid****Date Received: 02/23/22 11:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	20500	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1	20409	02/27/22 16:54	CH	XEN MID

Client Sample ID: SS08**Lab Sample ID: 890-2004-5****Date Collected: 02/22/22 12:31****Matrix: Solid****Date Received: 02/23/22 11:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20516	03/01/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20576	03/02/22 05:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20500	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			20218	02/24/22 12:07	CH	XEN MID
Soluble	Analysis	300.0		1	20355	03/01/22 01:35	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2004-1
SDG: NAPP2201947871

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2004-1	SS04	Solid	02/22/22 12:23	02/23/22 11:26	0.5
890-2004-2	SS05	Solid	02/22/22 12:24	02/23/22 11:26	0.5
890-2004-3	SS06	Solid	02/22/22 12:27	02/23/22 11:26	0.5
890-2004-4	SS07	Solid	02/22/22 12:29	02/23/22 11:26	0.5
890-2004-5	SS08	Solid	02/22/22 12:31	02/23/22 11:26	0.5



Chain of Custody

Work Order No: _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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Page 1 of 1

Project Manager:	BEN BELL	Bill to: (if different)	ADRIAN BAKER
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	989.854.0852	Email:	ben.bell@wsp.com; aimee.cole@wsp.com

Work Order Comments Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RHC ☐ Superfund State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV Reporting Level: ☐ EDD ☐ ADAPT ☐ Other:	
---	--

Project Name:	OUTRIDER CTB	Turn Around	☒ Routine ☐	ANALYSIS REQUEST	Work Order Notes
Project Number:	NAPP2201947871	Rush:			
P.O. Number:	31403236.029	Task:	1:1.02		
Sampler's Name:	BEN BELL	Due Date:			

SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Well Ice:	☒ Yes ☐ No
	Temperature (°C):	1.8/1.6	Thermometer ID	WW-2007
	Received Inact:	☒ Yes ☐ No	Correction Factor:	-0.2
	Cooler Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:	

Number of Containers	
TPH (EPA 8015)	
BTEX (EPA 0-8021)	
Chloride (EPA 300.0)	

890-2004 Chain of Custody 	
TAT starts the day received by the lab, if received by 4:30pm	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments
5504	S	2/22/22	12:23	0.5'	1	X	X	X	Discard
5505			12:24						
5506			12:27						
5507			12:29						
5508			12:31						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2-23-22 11:46			

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Environment Testing America

Chain of Custody Record



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

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier Tracking No(s)		COC No.	
Client Contact				Kramer Jessica		Kramer Jessica		State of Origin		890-639 1	
Shipping/Receiving				Phone:		E-Mail		New Mexico		Page 1 of 1	
Company				Eurofins Environment Testing South Cent		Accreditations Required (See note)		NELAP - Louisiana NELAP - Texas		Job #	
Address				1211 W. Florida Ave		Due Date Requested		3/1/2022		890-2004-1	
City				Midland		TAT Requested (days):				Preservation Codes	
State Zip				TX, 79701		PO #		MO #		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other	
Phone				432-704-5440(Tel)		Project #		890000004		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecahydrate U Acetone V - MCAA W pH 4-5 Z other (specify)	
Project Name				OUTRIDER CTB		SSOW#					
Site											

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastech, BT=leach, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
SS04 (890-2004-1)	2/22/22	12 23	Mountain	Solid			X	X	X	X	X	1	
SS05 (890-2004-2)	2/22/22	12 24	Mountain	Solid			X	X	X	X	X	1	
SS06 (890-2004-3)	2/22/22	12 27	Mountain	Solid			X	X	X	X	X	1	
SS07 (890-2004-4)	2/22/22	12 29	Mountain	Solid			X	X	X	X	X	1	
SS08 (890-2004-5)	2/22/22	12 31	Mountain	Solid			X	X	X	X	X	1	

Possible Hazard Identification Unconfirmed Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank 2				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____				Relinquished by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____				Relinquished by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____				Relinquished by: _____ Date/Time: _____ Company: _____			
Custody Seals Intact: _____ Custody Seal No _____				Cooler Temperature(s) °C and Other Remarks: _____			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2004-1
SDG Number: NAPP2201947871Login Number: 2004
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: WSP USA Inc.

Job Number: 890-2004-1
SDG Number: NAPP2201947871

Login Number: 2004

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 02/24/22 12:49 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2005-1

Laboratory Sample Delivery Group: NAPP2201947871

Client Project/Site: OUTRIDER CTB

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Benjamin Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/2/2022 11:22:54 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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results through

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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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Laboratory Job ID: 890-2005-1
SDG: NAPP2201947871

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Job ID: 890-2005-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2005-1

Receipt

The samples were received on 2/23/2022 11:26 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 1.6°C

GC VOA

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

GC Semi VOA

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 880-20218 and analytical batch 880-20355 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: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Client Sample ID: SS01

Lab Sample ID: 890-2005-1

Date Collected: 02/22/22 11:45

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/25/22 16:00	02/27/22 11:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/25/22 16:00	02/27/22 11:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/25/22 16:00	02/27/22 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/25/22 16:00	02/27/22 11:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/25/22 16:00	02/27/22 11:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/25/22 16:00	02/27/22 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/25/22 16:00	02/27/22 11:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/25/22 16:00	02/27/22 11:56	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			02/28/22 11:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		49.9	mg/Kg			02/28/22 13:11	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		02/25/22 08:25	02/25/22 17:46	1
Diesel Range Organics (Over C10-C28)	102		49.9	mg/Kg		02/25/22 08:25	02/25/22 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	02/25/22 08:25	02/25/22 17:46	1
o-Terphenyl	106		70 - 130	02/25/22 08:25	02/25/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12800		99.8	mg/Kg			03/01/22 01:54	20

Client Sample ID: SS02

Lab Sample ID: 890-2005-2

Date Collected: 02/22/22 11:47

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 12:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/25/22 16:00	02/27/22 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 12:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/25/22 16:00	02/27/22 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/25/22 16:00	02/27/22 12:16	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Client Sample ID: SS02

Lab Sample ID: 890-2005-2

Date Collected: 02/22/22 11:47

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	02/25/22 16:00	02/27/22 12:16	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			02/28/22 11:39	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			02/28/22 13:11	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		02/25/22 08:25	02/25/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 18:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			02/25/22 08:25	02/25/22 18:07	1
o-Terphenyl	109		70 - 130			02/25/22 08:25	02/25/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7190		49.5	mg/Kg			03/01/22 02:00	10

Client Sample ID: SS03

Lab Sample ID: 890-2005-3

Date Collected: 02/22/22 11:48

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/25/22 16:00	02/27/22 12:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/25/22 16:00	02/27/22 12:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/25/22 16:00	02/27/22 12:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/25/22 16:00	02/27/22 12:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/25/22 16:00	02/27/22 12:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/25/22 16:00	02/27/22 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	02/25/22 16:00	02/27/22 12:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/25/22 16:00	02/27/22 12:37	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			02/28/22 11:39	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			02/28/22 13:11	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Client Sample ID: SS03

Lab Sample ID: 890-2005-3

Date Collected: 02/22/22 11:48

Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 18:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/25/22 08:25	02/25/22 18:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			02/25/22 08:25	02/25/22 18:27	1
o-Terphenyl	106		70 - 130			02/25/22 08:25	02/25/22 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8010		50.2	mg/Kg			03/01/22 02:06	10

Surrogate Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1974-A-1-G MS	Matrix Spike	103	101
890-1974-A-1-H MSD	Matrix Spike Duplicate	98	100
890-2005-1	SS01	101	98
890-2005-2	SS02	104	97
890-2005-3	SS03	103	96
LCS 880-20241/1-A	Lab Control Sample	104	101
LCSD 880-20241/2-A	Lab Control Sample Dup	100	101
MB 880-20241/5-A	Method Blank	99	94
MB 880-20317/5-A	Method Blank	100	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2004-A-1-E MS	Matrix Spike	94	81
890-2004-A-1-F MSD	Matrix Spike Duplicate	92	80
890-2005-1	SS01	106	106
890-2005-2	SS02	108	109
890-2005-3	SS03	105	106
LCS 880-20293/2-A	Lab Control Sample	80	81
LCSD 880-20293/3-A	Lab Control Sample Dup	103	104
MB 880-20293/1-A	Method Blank	105	115
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20241/5-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20241

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/25/22 16:00	02/27/22 07:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/25/22 16:00	02/27/22 07:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/25/22 16:00	02/27/22 07:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/25/22 16:00	02/27/22 07:06	1

Lab Sample ID: LCS 880-20241/1-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1054		mg/Kg		105	70 - 130
Toluene	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1006		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130

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

Lab Sample ID: LCSD 880-20241/2-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1072		mg/Kg		107	70 - 130	2	35
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	1	35
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2095		mg/Kg		105	70 - 130	0	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	0	35

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

Lab Sample ID: 890-1974-A-1-G MS

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.0990	0.1111		mg/Kg		112	70 - 130
Toluene	<0.00198	U	0.0990	0.1071		mg/Kg		108	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

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

Lab Sample ID: 890-1974-A-1-G MS

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.0990	0.1053		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.198	0.2187		mg/Kg		110	70 - 130
o-Xylene	<0.00198	U	0.0990	0.1077		mg/Kg		109	70 - 130

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

Lab Sample ID: 890-1974-A-1-H MSD

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1067		mg/Kg		107	70 - 130	4	35
Toluene	<0.00198	U	0.100	0.1026		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.100	0.1006		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.2093		mg/Kg		105	70 - 130	4	35
o-Xylene	<0.00198	U	0.100	0.1025		mg/Kg		103	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-20317/5-A

Matrix: Solid

Analysis Batch: 20289

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20317

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/25/22 12:16	02/26/22 20:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/25/22 12:16	02/26/22 20:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/25/22 12:16	02/26/22 20:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/25/22 12:16	02/26/22 20:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/25/22 12:16	02/26/22 20:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/25/22 12:16	02/26/22 20:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/25/22 12:16	02/26/22 20:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/25/22 12:16	02/26/22 20:13	1

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

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

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		02/25/22 08:25	02/25/22 12:36	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

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

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

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		02/25/22 08:25	02/25/22 12:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			02/25/22 08:25	02/25/22 12:36	1
o-Terphenyl	115		70 - 130			02/25/22 08:25	02/25/22 12:36	1

Lab Sample ID: LCS 880-20293/2-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	797.2		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.5		mg/Kg		93	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	80		70 - 130				
o-Terphenyl	81		70 - 130				

Lab Sample ID: LCSD 880-20293/3-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	821.5		mg/Kg		82	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1019		mg/Kg		102	70 - 130	9	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 890-2004-A-1-E MS

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1240		mg/Kg		124	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1269		mg/Kg		127	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
o-Terphenyl	81		70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

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

Lab Sample ID: 890-2004-A-1-F MSD

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20293

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	998	1205		mg/Kg		121	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1237		mg/Kg		124	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	80		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20218/1-A

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/01/22 01:15	1

Lab Sample ID: LCS 880-20218/2-A

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	273.3		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-20218/3-A

Matrix: Solid

Analysis Batch: 20355

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	271.3		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 890-2004-A-5-F MS

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.60	F1	250	292.1	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-2004-A-5-G MSD

Matrix: Solid

Analysis Batch: 20355

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.60	F1	250	292.8	F1	mg/Kg		114	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

GC VOA

Prep Batch: 20241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	5035	
890-2005-2	SS02	Total/NA	Solid	5035	
890-2005-3	SS03	Total/NA	Solid	5035	
MB 880-20241/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20241/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20241/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1974-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-1974-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	8021B	20241
890-2005-2	SS02	Total/NA	Solid	8021B	20241
890-2005-3	SS03	Total/NA	Solid	8021B	20241
MB 880-20241/5-A	Method Blank	Total/NA	Solid	8021B	20241
MB 880-20317/5-A	Method Blank	Total/NA	Solid	8021B	20317
LCS 880-20241/1-A	Lab Control Sample	Total/NA	Solid	8021B	20241
LCSD 880-20241/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20241
890-1974-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	20241
890-1974-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20241

Prep Batch: 20317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20317/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 20479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	Total BTEX	
890-2005-2	SS02	Total/NA	Solid	Total BTEX	
890-2005-3	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	8015NM Prep	
890-2005-2	SS02	Total/NA	Solid	8015NM Prep	
890-2005-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	8015B NM	20293
890-2005-2	SS02	Total/NA	Solid	8015B NM	20293
890-2005-3	SS03	Total/NA	Solid	8015B NM	20293
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015B NM	20293
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20293

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

GC Semi VOA (Continued)

Analysis Batch: 20308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20293
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	20293
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20293

Analysis Batch: 20501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Total/NA	Solid	8015 NM	
890-2005-2	SS02	Total/NA	Solid	8015 NM	
890-2005-3	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Soluble	Solid	DI Leach	
890-2005-2	SS02	Soluble	Solid	DI Leach	
890-2005-3	SS03	Soluble	Solid	DI Leach	
MB 880-20218/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20218/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20218/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2004-A-5-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2004-A-5-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 20355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2005-1	SS01	Soluble	Solid	300.0	20218
890-2005-2	SS02	Soluble	Solid	300.0	20218
890-2005-3	SS03	Soluble	Solid	300.0	20218
MB 880-20218/1-A	Method Blank	Soluble	Solid	300.0	20218
LCS 880-20218/2-A	Lab Control Sample	Soluble	Solid	300.0	20218
LCSD 880-20218/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20218
890-2004-A-5-F MS	Matrix Spike	Soluble	Solid	300.0	20218
890-2004-A-5-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20218

Lab Chronicle

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Client Sample ID: SS01

Lab Sample ID: 890-2005-1

Date Collected: 02/22/22 11:45

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20241	02/25/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20289	02/27/22 11:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20479	02/28/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20501	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			20218	02/24/22 12:07	CH	XEN MID
Soluble	Analysis	300.0		20	20355	03/01/22 01:54	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2005-2

Date Collected: 02/22/22 11:47

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20241	02/25/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20289	02/27/22 12:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20479	02/28/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20501	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			20218	02/24/22 12:07	CH	XEN MID
Soluble	Analysis	300.0		10	20355	03/01/22 02:00	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-2005-3

Date Collected: 02/22/22 11:48

Matrix: Solid

Date Received: 02/23/22 11:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20241	02/25/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	20289	02/27/22 12:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20479	02/28/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20501	02/28/22 13:11	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20308	02/25/22 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			20218	02/24/22 12:07	CH	XEN MID
Soluble	Analysis	300.0		10	20355	03/01/22 02:06	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: OUTRIDER CTB

Job ID: 890-2005-1
SDG: NAPP2201947871

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2005-1	SS01	Solid	02/22/22 11:45	02/23/22 11:26	0.5
890-2005-2	SS02	Solid	02/22/22 11:47	02/23/22 11:26	0.5
890-2005-3	SS03	Solid	02/22/22 11:48	02/23/22 11:26	0.5

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



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	BEN BELLIL	Bill to: (if different)	ADRIAN BAKER
Company Name:	WSP	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	989.854.0852	Email:	ben.bellil@wsp.com; aimee.cole@wsp.com

Project Name:	OUTRIDER CTB	Turn Around	☒ Routine ☐ Rush
Project Number:	NAPP2201947871		
P.O. Number:	31403236.029	TASK: 1.1.02	
Sampler's Name:	BEN BELLIL	Due Date:	

SAMPLE RECEIPT			
Temperature (°C):	15.1/1.6	Temp Blank:	☒ Yes ☐ No
Received In tact:	☒ Yes ☐ No	Thermometer ID	MM-007
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:	



890-2005 Chain of Custody

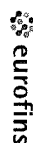
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	2/22/22	1145	0.5'	1	X	X	X	Discrete
SS02	S		1147	0.5'	1	X	X	X	
SS03	S		1148	0.5'	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Coe W	2.23.22 1124			

Eurofins Carlsbad

Chain of Custody Record



Environment Testing America

1089 N Canal St.
Carlsbad, NM 86220
Phone: 575-988-3199 Fax: 575-988-3199

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2005-1
SDG Number: NAPP2201947871Login Number: 2005
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: WSP USA Inc.

Job Number: 890-2005-1
SDG Number: NAPP2201947871

Login Number: 2005

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 02/24/22 12:49 PM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2163-1
Laboratory Sample Delivery Group: 03C1558001
Client Project/Site: Outrider CTB

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

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
4/7/2022 4:17:53 PM

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

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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: Outrider CTB

Laboratory Job ID: 890-2163-1
SDG: 03C1558001

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Definitions/Glossary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Job ID: 890-2163-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-2163-1**

Receipt

The samples were received on 4/1/2022 1:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22857 and analytical batch 880-22894 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-2163-8), PH03A (890-2163-9), (LCS 880-22891/2-A) and (LCSD 880-22891/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01

Lab Sample ID: 890-2163-1

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/04/22 11:22	04/04/22 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 12:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/04/22 11:22	04/04/22 12:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/04/22 09:02	04/04/22 11:25	1
o-Terphenyl	119		70 - 130	04/04/22 09:02	04/04/22 11:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 10:42	1

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	04/04/22 11:22	04/04/22 13:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 13:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 12:28	1
o-Terphenyl	113		70 - 130				04/04/22 09:02	04/04/22 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.95		5.00		mg/Kg			04/07/22 10:51	1

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 13:37	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 13:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 12:49	1
o-Terphenyl	112		70 - 130				04/04/22 09:02	04/04/22 12:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		4.99		mg/Kg			04/07/22 11:18	1

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/04/22 11:22	04/04/22 13:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/04/22 11:22	04/04/22 13:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 13:10	1
o-Terphenyl	111		70 - 130				04/04/22 09:02	04/04/22 13:10	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.00		4.95		mg/Kg			04/07/22 11:26	1

Client Sample ID: PH02B

Lab Sample ID: 890-2163-5

Date Collected: 03/31/22 11:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/04/22 11:22	04/04/22 14:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 14:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 13:31	1
o-Terphenyl	113		70 - 130				04/04/22 09:02	04/04/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		4.99		mg/Kg			04/07/22 11:53	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02C

Lab Sample ID: 890-2163-6

Date Collected: 03/31/22 11:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 14:38	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/04/22 11:22	04/04/22 14:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/04/22 09:02	04/04/22 13:53	1
o-Terphenyl	117		70 - 130	04/04/22 09:02	04/04/22 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		4.95		mg/Kg			04/07/22 12:02	1

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 14:59	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 14:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/04/22 09:02	04/04/22 14:14	1
o-Terphenyl	135	S1+	70 - 130				04/04/22 09:02	04/04/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3350		25.2		mg/Kg			04/07/22 12:11	5

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/04/22 11:22	04/04/22 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 15:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/04/22 11:22	04/04/22 15:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/04/22 09:02	04/04/22 14:35	1
o-Terphenyl	149	S1+	70 - 130				04/04/22 09:02	04/04/22 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8520		99.4		mg/Kg			04/07/22 12:19	20

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 15:40	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/04/22 11:22	04/04/22 15:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/04/22 09:02	04/04/22 14:56	1
o-Terphenyl	128		70 - 130				04/04/22 09:02	04/04/22 14:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.0		mg/Kg			04/07/22 12:28	5

Client Sample ID: PH03C

Lab Sample ID: 890-2163-11

Date Collected: 03/31/22 10:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/22 11:22	04/04/22 16:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/04/22 11:22	04/04/22 16:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/04/22 09:02	04/04/22 15:18	1
o-Terphenyl	97		70 - 130				04/04/22 09:02	04/04/22 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	423		5.00		mg/Kg			04/07/22 12:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS01

Lab Sample ID: 890-2163-13

Date Collected: 03/31/22 13:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 17:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/04/22 11:22	04/04/22 17:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/04/22 09:02	04/04/22 16:00	1
o-Terphenyl	110		70 - 130	04/04/22 09:02	04/04/22 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.97		mg/Kg			04/07/22 12:46	1

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 17:44	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 17:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/04/22 09:02	04/04/22 16:22	1
o-Terphenyl	119		70 - 130				04/04/22 09:02	04/04/22 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.55		4.95		mg/Kg			04/07/22 01:55	1

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/04/22 11:22	04/04/22 18:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 18:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/04/22 09:02	04/04/22 16:43	1
o-Terphenyl	109		70 - 130				04/04/22 09:02	04/04/22 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		5.00		mg/Kg			04/07/22 02:21	1

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/04/22 11:22	04/04/22 18:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 18:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 17:04	1
o-Terphenyl	111		70 - 130				04/04/22 09:02	04/04/22 17:04	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.17		4.96		mg/Kg			04/07/22 02:30	1

Client Sample ID: FS05

Lab Sample ID: 890-2163-17

Date Collected: 03/31/22 14:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 18:45	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/04/22 11:22	04/04/22 18:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/04/22 09:02	04/04/22 17:25	1
o-Terphenyl	107		70 - 130				04/04/22 09:02	04/04/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.00		mg/Kg			04/07/22 02:39	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS06

Lab Sample ID: 890-2163-18

Date Collected: 03/31/22 14:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/04/22 11:22	04/04/22 19:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 19:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/04/22 09:02	04/04/22 17:46	1
o-Terphenyl	112		70 - 130	04/04/22 09:02	04/04/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.52		4.97		mg/Kg			04/07/22 02:48	1

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	70 - 130	04/04/22 11:22	04/04/22 19:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	04/04/22 11:22	04/04/22 19:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 18:07	1
o-Terphenyl	110		70 - 130				04/04/22 09:02	04/04/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.31		5.00		mg/Kg			04/07/22 03:14	1

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 19:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 19:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/04/22 09:02	04/04/22 18:29	1
o-Terphenyl	110		70 - 130				04/04/22 09:02	04/04/22 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		4.95		mg/Kg			04/07/22 03:23	1

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:00	04/05/22 11:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/04/22 11:00	04/05/22 11:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/04/22 09:02	04/04/22 18:50	1
o-Terphenyl	107		70 - 130				04/04/22 09:02	04/04/22 18:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		5.04		mg/Kg			04/07/22 03:32	1

Client Sample ID: FS10

Lab Sample ID: 890-2163-22

Date Collected: 03/31/22 15:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				04/04/22 11:00	04/05/22 12:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/04/22 11:00	04/05/22 12:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 19:11	1
o-Terphenyl	109		70 - 130				04/04/22 09:02	04/04/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			04/07/22 03:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS11

Lab Sample ID: 890-2163-23

Date Collected: 03/31/22 15:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/04/22 11:00	04/05/22 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/04/22 11:00	04/05/22 12:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/04/22 11:00	04/05/22 12:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/04/22 11:43	04/05/22 00:50	1
o-Terphenyl	117		70 - 130	04/04/22 11:43	04/05/22 00:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.97		4.95		mg/Kg			04/07/22 03:50	1

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/04/22 11:00	04/05/22 12:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/04/22 11:00	04/05/22 12:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 11:43	04/05/22 01:10	1
o-Terphenyl	111		70 - 130				04/04/22 11:43	04/05/22 01:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			04/07/22 03:59	1

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/04/22 11:00	04/05/22 13:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/04/22 11:00	04/05/22 13:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/04/22 11:43	04/05/22 01:31	1
o-Terphenyl	113		70 - 130				04/04/22 11:43	04/05/22 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.30		5.02		mg/Kg			04/07/22 04:25	1

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/22 11:00	04/05/22 13:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/04/22 11:00	04/05/22 13:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 11:43	04/05/22 01:52	1
o-Terphenyl	104		70 - 130				04/04/22 11:43	04/05/22 01:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.8		4.99		mg/Kg			04/07/22 04:34	1

Client Sample ID: SW03

Lab Sample ID: 890-2163-27

Date Collected: 03/31/22 15:25

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/04/22 11:00	04/05/22 13:58	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/04/22 11:00	04/05/22 13:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/04/22 11:43	04/05/22 02:12	1
o-Terphenyl	105		70 - 130				04/04/22 11:43	04/05/22 02:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 05:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW04

Lab Sample ID: 890-2163-28

Date Collected: 03/31/22 15:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/04/22 11:00	04/05/22 14:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/04/22 11:00	04/05/22 14:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/04/22 11:43	04/05/22 02:33	1
o-Terphenyl	104		70 - 130	04/04/22 11:43	04/05/22 02:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.45		4.98		mg/Kg			04/07/22 05:09	1

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Surrogate Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2163-1	PH01	108	103
890-2163-1 MS	PH01	110	112
890-2163-1 MSD	PH01	113	107
890-2163-2	PH01A	142 S1+	107
890-2163-3	PH02	104	108
890-2163-4	PH02A	103	107
890-2163-5	PH02B	106	108
890-2163-6	PH02C	108	109
890-2163-8	PH03	104	108
890-2163-9	PH03A	108	99
890-2163-10	PH03B	108	109
890-2163-11	PH03C	107	104
890-2163-13	FS01	107	110
890-2163-14	FS02	107	108
890-2163-15	FS03	106	108
890-2163-16	FS04	104	108
890-2163-17	FS05	108	110
890-2163-18	FS06	105	108
890-2163-19	FS07	47 S1-	97
890-2163-20	FS08	104	107
890-2163-21	FS09	108	106
890-2163-21 MS	FS09	120	97
890-2163-21 MSD	FS09	128	97
890-2163-22	FS10	141 S1+	110
890-2163-23	FS11	113	102
890-2163-24	FS12	114	103
890-2163-25	SW01	116	105
890-2163-26	SW02	107	106
890-2163-27	SW03	109	105
890-2163-28	SW04	118	110
LCS 880-22857/1-A	Lab Control Sample	119	95
LCS 880-22923/1-A	Lab Control Sample	104	110
LCSD 880-22857/2-A	Lab Control Sample Dup	101	106
LCSD 880-22923/2-A	Lab Control Sample Dup	105	111
MB 880-22857/5-A	Method Blank	117	101
MB 880-22923/5-A	Method Blank	102	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-13187-A-1-F MS	Matrix Spike	90	97
880-13187-A-1-G MSD	Matrix Spike Duplicate	91	96
890-2163-1	PH01	98	119

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Surrogate Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2163-1 MS	PH01	87	96
890-2163-1 MSD	PH01	89	98
890-2163-2	PH01A	95	113
890-2163-3	PH02	94	112
890-2163-4	PH02A	94	111
890-2163-5	PH02B	94	113
890-2163-6	PH02C	99	117
890-2163-8	PH03	114	135 S1+
890-2163-9	PH03A	130	149 S1+
890-2163-10	PH03B	108	128
890-2163-11	PH03C	84	97
890-2163-13	FS01	94	110
890-2163-14	FS02	100	119
890-2163-15	FS03	92	109
890-2163-16	FS04	94	111
890-2163-17	FS05	91	107
890-2163-18	FS06	96	112
890-2163-19	FS07	95	110
890-2163-20	FS08	97	110
890-2163-21	FS09	93	107
890-2163-22	FS10	95	109
890-2163-23	FS11	98	117
890-2163-24	FS12	95	111
890-2163-25	SW01	97	113
890-2163-26	SW02	94	104
890-2163-27	SW03	93	105
890-2163-28	SW04	92	104
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-22891/2-A	Lab Control Sample	110	134 S1+
LCS 880-22935/2-A	Lab Control Sample	97	116
LCSD 880-22891/3-A	Lab Control Sample Dup	110	133 S1+
LCSD 880-22935/3-A	Lab Control Sample Dup	99	118
MB 880-22891/1-A	Method Blank	103	127
MB 880-22935/1-A	Method Blank	107	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22857/5-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/04/22 11:00	04/05/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/04/22 11:00	04/05/22 11:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/04/22 11:00	04/05/22 11:31	1

Lab Sample ID: LCS 880-22857/1-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09765		mg/Kg		98	70 - 130
Toluene	0.100	0.09729		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1125		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2478		mg/Kg		124	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)	95		70 - 130

Lab Sample ID: LCSD 880-22857/2-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	4	35
Toluene	0.100	0.08446		mg/Kg		84	70 - 130	14	35
Ethylbenzene	0.100	0.08933		mg/Kg		89	70 - 130	23	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	26	35
o-Xylene	0.100	0.09436		mg/Kg		94	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2163-21 MS

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0990	0.06990		mg/Kg		70	70 - 130
Toluene	<0.00198	U F1	0.0990	0.06796	F1	mg/Kg		69	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-21 MS

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0990	0.07531		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.198	0.1655		mg/Kg		84	70 - 130
o-Xylene	<0.00198	U	0.0990	0.08243		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2163-21 MSD

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.07212		mg/Kg		72	70 - 130	3	35
Toluene	<0.00198	U F1	0.100	0.06674	F1	mg/Kg		67	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.100	0.06975		mg/Kg		70	70 - 130	8	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1544		mg/Kg		77	70 - 130	7	35
o-Xylene	<0.00198	U	0.100	0.07847		mg/Kg		78	70 - 130	5	35

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

Lab Sample ID: MB 880-22923/5-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/04/22 11:22	04/04/22 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/04/22 11:22	04/04/22 12:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 12:34	1

Lab Sample ID: LCS 880-22923/1-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09202		mg/Kg		92	70 - 130
Toluene	0.100	0.09234		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09643		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: LCS 880-22923/1-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09804		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-22923/2-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09272		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.09322		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09722		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.09866		mg/Kg		99	70 - 130	1	35

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

Lab Sample ID: 890-2163-1 MS

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2259		mg/Kg		113	70 - 130
o-Xylene	<0.00200	U	0.100	0.1108		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.07953		mg/Kg		80	70 - 130	24	35
Toluene	<0.00200	U	0.0998	0.09376		mg/Kg		94	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0998	0.1059		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2120		mg/Kg		106	70 - 130	6	35
o-Xylene	<0.00200	U	0.0998	0.1052		mg/Kg		105	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-22891/1-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22891

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	103		70 - 130				04/04/22 09:02	04/04/22 10:21	1	
o-Terphenyl	127		70 - 130				04/04/22 09:02	04/04/22 10:21	1	

Lab Sample ID: LCS 880-22891/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22891

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	972.7		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1150		mg/Kg		115	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	110		70 - 130							
o-Terphenyl	134	S1+	70 - 130							

Lab Sample ID: LCSD 880-22891/3-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22891

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	929.1		mg/Kg		93	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)			1000	1116		mg/Kg		112	70 - 130	3	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	110		70 - 130									
o-Terphenyl	133	S1+	70 - 130									

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-1 MS

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	916.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	821.2		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22891

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	<49.8	U	998	960.3		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	842.5		mg/Kg		82	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: MB 880-22935/1-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/04/22 11:43	04/04/22 22:23	1
o-Terphenyl	127		70 - 130				04/04/22 11:43	04/04/22 22:23	1

Lab Sample ID: LCS 880-22935/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	841.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	987.3		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: LCS 880-22935/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22935

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-22935/3-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22935

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.8		mg/Kg		84	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	992.0		mg/Kg		99	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 880-13187-A-1-F MS

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	883.5		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	54.3		998	829.4		mg/Kg		78	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-13187-A-1-G MSD

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22935

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	<49.8	U	998	921.7		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	54.3		998	834.8		mg/Kg		78	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22977/1-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 08:29	1

Lab Sample ID: LCS 880-22977/2-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-22977/3-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2163-2 MS

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.95		250	254.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-2163-2 MSD

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.95		250	255.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-22978/1-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 01:28	1

Lab Sample ID: LCS 880-22978/2-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22978/3-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	2	20

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2163-14 MS

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	9.55		248	250.1		mg/Kg		97	90 - 110		

Lab Sample ID: 890-2163-14 MSD

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.55		248	250.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2163-24 MS

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<4.99	U	250	242.1		mg/Kg		96	90 - 110		

Lab Sample ID: 890-2163-24 MSD

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.99	U	250	242.6		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA

Prep Batch: 22857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	5035	
890-2163-22	FS10	Total/NA	Solid	5035	
890-2163-23	FS11	Total/NA	Solid	5035	
890-2163-24	FS12	Total/NA	Solid	5035	
890-2163-25	SW01	Total/NA	Solid	5035	
890-2163-26	SW02	Total/NA	Solid	5035	
890-2163-27	SW03	Total/NA	Solid	5035	
890-2163-28	SW04	Total/NA	Solid	5035	
MB 880-22857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2163-21 MS	FS09	Total/NA	Solid	5035	
890-2163-21 MSD	FS09	Total/NA	Solid	5035	

Analysis Batch: 22892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8021B	22923
890-2163-2	PH01A	Total/NA	Solid	8021B	22923
890-2163-3	PH02	Total/NA	Solid	8021B	22923
890-2163-4	PH02A	Total/NA	Solid	8021B	22923
890-2163-5	PH02B	Total/NA	Solid	8021B	22923
890-2163-6	PH02C	Total/NA	Solid	8021B	22923
890-2163-8	PH03	Total/NA	Solid	8021B	22923
890-2163-9	PH03A	Total/NA	Solid	8021B	22923
890-2163-10	PH03B	Total/NA	Solid	8021B	22923
890-2163-11	PH03C	Total/NA	Solid	8021B	22923
890-2163-13	FS01	Total/NA	Solid	8021B	22923
890-2163-14	FS02	Total/NA	Solid	8021B	22923
890-2163-15	FS03	Total/NA	Solid	8021B	22923
890-2163-16	FS04	Total/NA	Solid	8021B	22923
890-2163-17	FS05	Total/NA	Solid	8021B	22923
890-2163-18	FS06	Total/NA	Solid	8021B	22923
890-2163-19	FS07	Total/NA	Solid	8021B	22923
890-2163-20	FS08	Total/NA	Solid	8021B	22923
MB 880-22923/5-A	Method Blank	Total/NA	Solid	8021B	22923
LCS 880-22923/1-A	Lab Control Sample	Total/NA	Solid	8021B	22923
LCSD 880-22923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22923
890-2163-1 MS	PH01	Total/NA	Solid	8021B	22923
890-2163-1 MSD	PH01	Total/NA	Solid	8021B	22923

Analysis Batch: 22894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	8021B	22857
890-2163-22	FS10	Total/NA	Solid	8021B	22857
890-2163-23	FS11	Total/NA	Solid	8021B	22857
890-2163-24	FS12	Total/NA	Solid	8021B	22857
890-2163-25	SW01	Total/NA	Solid	8021B	22857
890-2163-26	SW02	Total/NA	Solid	8021B	22857
890-2163-27	SW03	Total/NA	Solid	8021B	22857
890-2163-28	SW04	Total/NA	Solid	8021B	22857
MB 880-22857/5-A	Method Blank	Total/NA	Solid	8021B	22857

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA (Continued)

Analysis Batch: 22894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-22857/1-A	Lab Control Sample	Total/NA	Solid	8021B	22857
LCSD 880-22857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22857
890-2163-21 MS	FS09	Total/NA	Solid	8021B	22857
890-2163-21 MSD	FS09	Total/NA	Solid	8021B	22857

Prep Batch: 22923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	5035	
890-2163-2	PH01A	Total/NA	Solid	5035	
890-2163-3	PH02	Total/NA	Solid	5035	
890-2163-4	PH02A	Total/NA	Solid	5035	
890-2163-5	PH02B	Total/NA	Solid	5035	
890-2163-6	PH02C	Total/NA	Solid	5035	
890-2163-8	PH03	Total/NA	Solid	5035	
890-2163-9	PH03A	Total/NA	Solid	5035	
890-2163-10	PH03B	Total/NA	Solid	5035	
890-2163-11	PH03C	Total/NA	Solid	5035	
890-2163-13	FS01	Total/NA	Solid	5035	
890-2163-14	FS02	Total/NA	Solid	5035	
890-2163-15	FS03	Total/NA	Solid	5035	
890-2163-16	FS04	Total/NA	Solid	5035	
890-2163-17	FS05	Total/NA	Solid	5035	
890-2163-18	FS06	Total/NA	Solid	5035	
890-2163-19	FS07	Total/NA	Solid	5035	
890-2163-20	FS08	Total/NA	Solid	5035	
MB 880-22923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2163-1 MS	PH01	Total/NA	Solid	5035	
890-2163-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 23039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	Total BTEX	
890-2163-2	PH01A	Total/NA	Solid	Total BTEX	
890-2163-3	PH02	Total/NA	Solid	Total BTEX	
890-2163-4	PH02A	Total/NA	Solid	Total BTEX	
890-2163-5	PH02B	Total/NA	Solid	Total BTEX	
890-2163-6	PH02C	Total/NA	Solid	Total BTEX	
890-2163-8	PH03	Total/NA	Solid	Total BTEX	
890-2163-9	PH03A	Total/NA	Solid	Total BTEX	
890-2163-10	PH03B	Total/NA	Solid	Total BTEX	
890-2163-11	PH03C	Total/NA	Solid	Total BTEX	
890-2163-13	FS01	Total/NA	Solid	Total BTEX	
890-2163-14	FS02	Total/NA	Solid	Total BTEX	
890-2163-15	FS03	Total/NA	Solid	Total BTEX	
890-2163-16	FS04	Total/NA	Solid	Total BTEX	
890-2163-17	FS05	Total/NA	Solid	Total BTEX	
890-2163-18	FS06	Total/NA	Solid	Total BTEX	
890-2163-19	FS07	Total/NA	Solid	Total BTEX	
890-2163-20	FS08	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA (Continued)

Analysis Batch: 23039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	Total BTEX	
890-2163-22	FS10	Total/NA	Solid	Total BTEX	
890-2163-23	FS11	Total/NA	Solid	Total BTEX	
890-2163-24	FS12	Total/NA	Solid	Total BTEX	
890-2163-25	SW01	Total/NA	Solid	Total BTEX	
890-2163-26	SW02	Total/NA	Solid	Total BTEX	
890-2163-27	SW03	Total/NA	Solid	Total BTEX	
890-2163-28	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015B NM	22891
890-2163-2	PH01A	Total/NA	Solid	8015B NM	22891
890-2163-3	PH02	Total/NA	Solid	8015B NM	22891
890-2163-4	PH02A	Total/NA	Solid	8015B NM	22891
890-2163-5	PH02B	Total/NA	Solid	8015B NM	22891
890-2163-6	PH02C	Total/NA	Solid	8015B NM	22891
890-2163-8	PH03	Total/NA	Solid	8015B NM	22891
890-2163-9	PH03A	Total/NA	Solid	8015B NM	22891
890-2163-10	PH03B	Total/NA	Solid	8015B NM	22891
890-2163-11	PH03C	Total/NA	Solid	8015B NM	22891
890-2163-13	FS01	Total/NA	Solid	8015B NM	22891
890-2163-14	FS02	Total/NA	Solid	8015B NM	22891
890-2163-15	FS03	Total/NA	Solid	8015B NM	22891
890-2163-16	FS04	Total/NA	Solid	8015B NM	22891
890-2163-17	FS05	Total/NA	Solid	8015B NM	22891
890-2163-18	FS06	Total/NA	Solid	8015B NM	22891
890-2163-19	FS07	Total/NA	Solid	8015B NM	22891
890-2163-20	FS08	Total/NA	Solid	8015B NM	22891
890-2163-21	FS09	Total/NA	Solid	8015B NM	22891
890-2163-22	FS10	Total/NA	Solid	8015B NM	22891
890-2163-23	FS11	Total/NA	Solid	8015B NM	22935
890-2163-24	FS12	Total/NA	Solid	8015B NM	22935
890-2163-25	SW01	Total/NA	Solid	8015B NM	22935
890-2163-26	SW02	Total/NA	Solid	8015B NM	22935
890-2163-27	SW03	Total/NA	Solid	8015B NM	22935
890-2163-28	SW04	Total/NA	Solid	8015B NM	22935
MB 880-22891/1-A	Method Blank	Total/NA	Solid	8015B NM	22891
MB 880-22935/1-A	Method Blank	Total/NA	Solid	8015B NM	22935
LCS 880-22891/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22891
LCS 880-22935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22935
LCSD 880-22891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22891
LCSD 880-22935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22935
880-13187-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22935
880-13187-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22935
890-2163-1 MS	PH01	Total/NA	Solid	8015B NM	22891
890-2163-1 MSD	PH01	Total/NA	Solid	8015B NM	22891

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC Semi VOA

Prep Batch: 22891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015NM Prep	
890-2163-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2163-3	PH02	Total/NA	Solid	8015NM Prep	
890-2163-4	PH02A	Total/NA	Solid	8015NM Prep	
890-2163-5	PH02B	Total/NA	Solid	8015NM Prep	
890-2163-6	PH02C	Total/NA	Solid	8015NM Prep	
890-2163-8	PH03	Total/NA	Solid	8015NM Prep	
890-2163-9	PH03A	Total/NA	Solid	8015NM Prep	
890-2163-10	PH03B	Total/NA	Solid	8015NM Prep	
890-2163-11	PH03C	Total/NA	Solid	8015NM Prep	
890-2163-13	FS01	Total/NA	Solid	8015NM Prep	
890-2163-14	FS02	Total/NA	Solid	8015NM Prep	
890-2163-15	FS03	Total/NA	Solid	8015NM Prep	
890-2163-16	FS04	Total/NA	Solid	8015NM Prep	
890-2163-17	FS05	Total/NA	Solid	8015NM Prep	
890-2163-18	FS06	Total/NA	Solid	8015NM Prep	
890-2163-19	FS07	Total/NA	Solid	8015NM Prep	
890-2163-20	FS08	Total/NA	Solid	8015NM Prep	
890-2163-21	FS09	Total/NA	Solid	8015NM Prep	
890-2163-22	FS10	Total/NA	Solid	8015NM Prep	
MB 880-22891/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22891/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2163-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2163-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 22935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-23	FS11	Total/NA	Solid	8015NM Prep	
890-2163-24	FS12	Total/NA	Solid	8015NM Prep	
890-2163-25	SW01	Total/NA	Solid	8015NM Prep	
890-2163-26	SW02	Total/NA	Solid	8015NM Prep	
890-2163-27	SW03	Total/NA	Solid	8015NM Prep	
890-2163-28	SW04	Total/NA	Solid	8015NM Prep	
MB 880-22935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13187-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13187-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015 NM	
890-2163-2	PH01A	Total/NA	Solid	8015 NM	
890-2163-3	PH02	Total/NA	Solid	8015 NM	
890-2163-4	PH02A	Total/NA	Solid	8015 NM	
890-2163-5	PH02B	Total/NA	Solid	8015 NM	
890-2163-6	PH02C	Total/NA	Solid	8015 NM	
890-2163-8	PH03	Total/NA	Solid	8015 NM	
890-2163-9	PH03A	Total/NA	Solid	8015 NM	
890-2163-10	PH03B	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC Semi VOA (Continued)

Analysis Batch: 23014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-11	PH03C	Total/NA	Solid	8015 NM	
890-2163-13	FS01	Total/NA	Solid	8015 NM	
890-2163-14	FS02	Total/NA	Solid	8015 NM	
890-2163-15	FS03	Total/NA	Solid	8015 NM	
890-2163-16	FS04	Total/NA	Solid	8015 NM	
890-2163-17	FS05	Total/NA	Solid	8015 NM	
890-2163-18	FS06	Total/NA	Solid	8015 NM	
890-2163-19	FS07	Total/NA	Solid	8015 NM	
890-2163-20	FS08	Total/NA	Solid	8015 NM	
890-2163-21	FS09	Total/NA	Solid	8015 NM	
890-2163-22	FS10	Total/NA	Solid	8015 NM	
890-2163-23	FS11	Total/NA	Solid	8015 NM	
890-2163-24	FS12	Total/NA	Solid	8015 NM	
890-2163-25	SW01	Total/NA	Solid	8015 NM	
890-2163-26	SW02	Total/NA	Solid	8015 NM	
890-2163-27	SW03	Total/NA	Solid	8015 NM	
890-2163-28	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Soluble	Solid	DI Leach	
890-2163-2	PH01A	Soluble	Solid	DI Leach	
890-2163-3	PH02	Soluble	Solid	DI Leach	
890-2163-4	PH02A	Soluble	Solid	DI Leach	
890-2163-5	PH02B	Soluble	Solid	DI Leach	
890-2163-6	PH02C	Soluble	Solid	DI Leach	
890-2163-8	PH03	Soluble	Solid	DI Leach	
890-2163-9	PH03A	Soluble	Solid	DI Leach	
890-2163-10	PH03B	Soluble	Solid	DI Leach	
890-2163-11	PH03C	Soluble	Solid	DI Leach	
890-2163-13	FS01	Soluble	Solid	DI Leach	
MB 880-22977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2163-2 MS	PH01A	Soluble	Solid	DI Leach	
890-2163-2 MSD	PH01A	Soluble	Solid	DI Leach	

Leach Batch: 22978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-14	FS02	Soluble	Solid	DI Leach	
890-2163-15	FS03	Soluble	Solid	DI Leach	
890-2163-16	FS04	Soluble	Solid	DI Leach	
890-2163-17	FS05	Soluble	Solid	DI Leach	
890-2163-18	FS06	Soluble	Solid	DI Leach	
890-2163-19	FS07	Soluble	Solid	DI Leach	
890-2163-20	FS08	Soluble	Solid	DI Leach	
890-2163-21	FS09	Soluble	Solid	DI Leach	
890-2163-22	FS10	Soluble	Solid	DI Leach	
890-2163-23	FS11	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

HPLC/IC (Continued)

Leach Batch: 22978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-24	FS12	Soluble	Solid	DI Leach	
890-2163-25	SW01	Soluble	Solid	DI Leach	
890-2163-26	SW02	Soluble	Solid	DI Leach	
890-2163-27	SW03	Soluble	Solid	DI Leach	
890-2163-28	SW04	Soluble	Solid	DI Leach	
MB 880-22978/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22978/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22978/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2163-14 MS	FS02	Soluble	Solid	DI Leach	
890-2163-14 MSD	FS02	Soluble	Solid	DI Leach	
890-2163-24 MS	FS12	Soluble	Solid	DI Leach	
890-2163-24 MSD	FS12	Soluble	Solid	DI Leach	

Analysis Batch: 23045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Soluble	Solid	300.0	22977
890-2163-2	PH01A	Soluble	Solid	300.0	22977
890-2163-3	PH02	Soluble	Solid	300.0	22977
890-2163-4	PH02A	Soluble	Solid	300.0	22977
890-2163-5	PH02B	Soluble	Solid	300.0	22977
890-2163-6	PH02C	Soluble	Solid	300.0	22977
890-2163-8	PH03	Soluble	Solid	300.0	22977
890-2163-9	PH03A	Soluble	Solid	300.0	22977
890-2163-10	PH03B	Soluble	Solid	300.0	22977
890-2163-11	PH03C	Soluble	Solid	300.0	22977
890-2163-13	FS01	Soluble	Solid	300.0	22977
MB 880-22977/1-A	Method Blank	Soluble	Solid	300.0	22977
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	300.0	22977
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22977
890-2163-2 MS	PH01A	Soluble	Solid	300.0	22977
890-2163-2 MSD	PH01A	Soluble	Solid	300.0	22977

Analysis Batch: 23089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-14	FS02	Soluble	Solid	300.0	22978
890-2163-15	FS03	Soluble	Solid	300.0	22978
890-2163-16	FS04	Soluble	Solid	300.0	22978
890-2163-17	FS05	Soluble	Solid	300.0	22978
890-2163-18	FS06	Soluble	Solid	300.0	22978
890-2163-19	FS07	Soluble	Solid	300.0	22978
890-2163-20	FS08	Soluble	Solid	300.0	22978
890-2163-21	FS09	Soluble	Solid	300.0	22978
890-2163-22	FS10	Soluble	Solid	300.0	22978
890-2163-23	FS11	Soluble	Solid	300.0	22978
890-2163-24	FS12	Soluble	Solid	300.0	22978
890-2163-25	SW01	Soluble	Solid	300.0	22978
890-2163-26	SW02	Soluble	Solid	300.0	22978
890-2163-27	SW03	Soluble	Solid	300.0	22978
890-2163-28	SW04	Soluble	Solid	300.0	22978
MB 880-22978/1-A	Method Blank	Soluble	Solid	300.0	22978
LCS 880-22978/2-A	Lab Control Sample	Soluble	Solid	300.0	22978

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

HPLC/IC (Continued)

Analysis Batch: 23089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22978/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22978
890-2163-14 MS	FS02	Soluble	Solid	300.0	22978
890-2163-14 MSD	FS02	Soluble	Solid	300.0	22978
890-2163-24 MS	FS12	Soluble	Solid	300.0	22978
890-2163-24 MSD	FS12	Soluble	Solid	300.0	22978

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01

Lab Sample ID: 890-2163-1

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 11:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:42	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 12:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:51	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 12:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:18	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:26	CH	XEN MID

Client Sample ID: PH02B

Lab Sample ID: 890-2163-5

Date Collected: 03/31/22 11:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:53	CH	XEN MID

Client Sample ID: PH02C

Lab Sample ID: 890-2163-6

Date Collected: 03/31/22 11:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:02	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:14	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		5			23045	04/07/22 12:11	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 15:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		20			23045	04/07/22 12:19	CH	XEN MID

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 15:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		5			23045	04/07/22 12:28	CH	XEN MID

Client Sample ID: PH03C

Lab Sample ID: 890-2163-11

Date Collected: 03/31/22 10:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 16:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:37	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS01

Lab Sample ID: 890-2163-13

Date Collected: 03/31/22 13:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 17:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:46	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 17:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 01:55	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:21	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:30	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-2163-17

Date Collected: 03/31/22 14:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:39	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-2163-18

Date Collected: 03/31/22 14:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:48	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:07	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:14	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:23	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 11:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:32	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-2163-22

Date Collected: 03/31/22 15:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:41	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS11

Lab Sample ID: 890-2163-23

Date Collected: 03/31/22 15:40

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 00:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:50	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:59	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 04:25	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 04:34	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-2163-27

Date Collected: 03/31/22 15:25

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 02:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 05:01	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-2163-28

Date Collected: 03/31/22 15:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 14:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 02:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 05:09	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

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

Method Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2163-1	PH01	Solid	03/31/22 10:00	04/01/22 13:42	1
890-2163-2	PH01A	Solid	03/31/22 10:05	04/01/22 13:42	2
890-2163-3	PH02	Solid	03/31/22 10:10	04/01/22 13:42	1
890-2163-4	PH02A	Solid	03/31/22 10:20	04/01/22 13:42	2
890-2163-5	PH02B	Solid	03/31/22 11:30	04/01/22 13:42	3
890-2163-6	PH02C	Solid	03/31/22 11:40	04/01/22 13:42	4
890-2163-8	PH03	Solid	03/31/22 10:30	04/01/22 13:42	1
890-2163-9	PH03A	Solid	03/31/22 10:35	04/01/22 13:42	2
890-2163-10	PH03B	Solid	03/31/22 10:40	04/01/22 13:42	3
890-2163-11	PH03C	Solid	03/31/22 10:50	04/01/22 13:42	4
890-2163-13	FS01	Solid	03/31/22 13:00	04/01/22 13:42	1
890-2163-14	FS02	Solid	03/31/22 13:20	04/01/22 13:42	1
890-2163-15	FS03	Solid	03/31/22 13:40	04/01/22 13:42	2
890-2163-16	FS04	Solid	03/31/22 14:00	04/01/22 13:42	1
890-2163-17	FS05	Solid	03/31/22 14:30	04/01/22 13:42	1
890-2163-18	FS06	Solid	03/31/22 14:40	04/01/22 13:42	1
890-2163-19	FS07	Solid	03/31/22 14:50	04/01/22 13:42	1
890-2163-20	FS08	Solid	03/31/22 15:00	04/01/22 13:42	1
890-2163-21	FS09	Solid	03/31/22 15:15	04/01/22 13:42	4
890-2163-22	FS10	Solid	03/31/22 15:20	04/01/22 13:42	4
890-2163-23	FS11	Solid	03/31/22 15:40	04/01/22 13:42	1
890-2163-24	FS12	Solid	03/31/22 15:45	04/01/22 13:42	1
890-2163-25	SW01	Solid	03/31/22 15:05	04/01/22 13:42	0 - 2
890-2163-26	SW02	Solid	03/31/22 15:10	04/01/22 13:42	0 - 2
890-2163-27	SW03	Solid	03/31/22 15:25	04/01/22 13:42	0 - 4
890-2163-28	SW04	Solid	03/31/22 15:30	04/01/22 13:42	0 - 4

Chain of Custody

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

Work Order No: _____

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Project Manager:	Ensolium	Bill to: (if different)	Adrian Baker
Company Name:	Ensolium	Company Name:	XTO Energy, Inc.
Address:	2351 W. Northwest Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(972) 854-0852	Email:	adrian.baker@ensolium.com

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

Project Name:	Dutcher CTS	Turn Around	☐ Routine ☒ Rush	Pres. Code
Project Number:	03C1558001	Due Date:	3 day	
Project Location:	2351 W. Northwest Hwy, N/M	TAT starts the day received by the lab, if received by 4:30pm		
Sampler's Name:	Ensolium			
PO #:	4492201447871	Temp Blank:	☒ Yes ☐ No	Wet Ice:
SAMPLE RECEIPT		Thermometer ID:	100000	
Samples Received Intact:	☒ Yes ☐ No	Correction Factor:	-0.2	
Cooler Custody Seals:	☒ Yes ☐ No	Temperature Reading:	3.2	
Sample Custody Seals:	☒ Yes ☐ No	Corrected Temperature:	3.0	
Total Containers:				



ANALYSIS REQUEST	
None: NO	DI Water: H ₂ O
Cool: Cool	MeOH: Me
HCl: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na
H ₃ PO ₄ : HP	
NaHSO ₄ : NABIS	
Na ₂ S ₂ O ₃ : NaSO ₃	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	ANALYSIS REQUEST	Preservative Codes	Sample Comments
-----------------------	--------	--------------	--------------	-------	-----------	-----------	------------------------	------------	-------------	------------------	--------------------	-----------------

PH01	S	3/3/22	1000	1'	G	1	X	X	X			Left Center: 1056151001
PH01A			1005	2'								
PH02			1010	1'								
PH02A			1020	2'								
PH02B			1130	3'								
PH02C			1140	4'								
PH02D			1200	5'								Hold
PH03			1030	1'								
PH03A			1035	2'								
PH03B			1040	3'								

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. [Signature]	[Signature]	4.1.22 1343			
3					
5					

Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3343
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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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:		Dutrie CTB		Turn Around	
Project Number:		D3C1558001		☐ Routine ☒ Rush	
Project Location:		Len County, NM		Due Date: 3/24/11	
Sampler's Name:		BunBailly		TAT starts the day received by the lab, if received by 4:30pm	
PO #:		NAP02201947 871			
SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:
Samples Received Intact:		Yes	No	Thermometer ID:	2
Cooler Custody Seals:		Yes	No	Correction Factor:	0.1
Sample Custody Seals:		Yes	No	N/A	Temperature Reading:
Total Containers:					Corrected Temperature:
Parameters					
Pres. Code 015) 8021					
ANALYSIS REQUEST					
Preservative Codes None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC					

[illegible]

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	4.1.22 1843			
2					
3					
4					
5					

Revised Date 08-25-2020 Rev 20

Chain of Custody

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

Work Order No: _____

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Page _____

of _____

Project Manager:	Ben Bell	Bill to: (if different)	Adrian Baker
Company Name:	Environ	Company Name:	XTO Energy, Inc.
Address:	2351 W North West Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(972) 854-0852	Email:	

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:	Durbin CTB	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	03C1558001	Due Date:	3 day		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Ben Bell				
PO #:	APP220147871				
SAMPLE RECEIPT					
Samples Received Intact:	Yes	No	Thermometer ID:		
Cooler Custody Seals:	Yes	No	Correction Factor:		
Sample Custody Seals:	Yes	No	Temperature Reading:		
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
FS09	S	3/31/22	1515	4'	Long	1	CHLORIDES (EPA: 300.0)		None: NO DI Water: H ₂ O
FS10			1520	4'			TPH (8015)		Cool: Cool MeOH: Me
FS11			1540	1'			BTEX (8021)		HCL: HC HNO ₃ : HN
FS12			1545	1'					H ₂ SO ₄ : H ₂
SV01			1505	0-2'					H ₃ PO ₄ : HP
SV02			1510	0-2'					NaHSO ₄ : NABIS
SV03			1525	0-4'					Na ₂ S ₂ O ₃ : NaSO ₃
SV04			1530	0-4'					Zn Acetate+NaOH: Zn
									NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2163-1

SDG Number: 03C1558001

Login Number: 2163

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: 890-2163-1

SDG Number: 03C1558001

Login Number: 2163

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/04/22 07:46 AM

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2163-1
Laboratory Sample Delivery Group: 03C1558001
Client Project/Site: Outrider CTB

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

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
4/7/2022 4:17:53 PM

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

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results through

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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: Outrider CTB

Laboratory Job ID: 890-2163-1
SDG: 03C1558001

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Definitions/Glossary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Job ID: 890-2163-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-2163-1**

Receipt

The samples were received on 4/1/2022 1:42 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22857 and analytical batch 880-22894 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-2163-8), PH03A (890-2163-9), (LCS 880-22891/2-A) and (LCSD 880-22891/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01

Lab Sample ID: 890-2163-1

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/04/22 11:22	04/04/22 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 12:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/04/22 11:22	04/04/22 12:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/04/22 09:02	04/04/22 11:25	1
o-Terphenyl	119		70 - 130	04/04/22 09:02	04/04/22 11:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 10:42	1

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	04/04/22 11:22	04/04/22 13:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 13:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 12:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 12:28	1
o-Terphenyl	113		70 - 130				04/04/22 09:02	04/04/22 12:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.95		5.00		mg/Kg			04/07/22 10:51	1

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 13:37	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 13:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 12:49	1
o-Terphenyl	112		70 - 130				04/04/22 09:02	04/04/22 12:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.3		4.99		mg/Kg			04/07/22 11:18	1

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				04/04/22 11:22	04/04/22 13:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130				04/04/22 11:22	04/04/22 13:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 13:10	1
o-Terphenyl	111		70 - 130				04/04/22 09:02	04/04/22 13:10	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.00		4.95		mg/Kg			04/07/22 11:26	1

Client Sample ID: PH02B

Lab Sample ID: 890-2163-5

Date Collected: 03/31/22 11:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/04/22 11:22	04/04/22 14:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 14:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 13:31	1
o-Terphenyl	113		70 - 130				04/04/22 09:02	04/04/22 13:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		4.99		mg/Kg			04/07/22 11:53	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02C

Lab Sample ID: 890-2163-6

Date Collected: 03/31/22 11:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 14:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 14:38	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/04/22 11:22	04/04/22 14:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	04/04/22 09:02	04/04/22 13:53	1
o-Terphenyl	117		70 - 130	04/04/22 09:02	04/04/22 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.3		4.95		mg/Kg			04/07/22 12:02	1

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 14:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 14:59	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 14:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				04/04/22 09:02	04/04/22 14:14	1
o-Terphenyl	135	S1+	70 - 130				04/04/22 09:02	04/04/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3350		25.2		mg/Kg			04/07/22 12:11	5

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:22	04/04/22 15:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/04/22 11:22	04/04/22 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 15:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/04/22 11:22	04/04/22 15:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/04/22 09:02	04/04/22 14:35	1
o-Terphenyl	149	S1+	70 - 130				04/04/22 09:02	04/04/22 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8520		99.4		mg/Kg			04/07/22 12:19	20

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 15:40	1
1,4-Difluorobenzene (Surr)	109		70 - 130				04/04/22 11:22	04/04/22 15:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/04/22 09:02	04/04/22 14:56	1
o-Terphenyl	128		70 - 130				04/04/22 09:02	04/04/22 14:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		25.0		mg/Kg			04/07/22 12:28	5

Client Sample ID: PH03C

Lab Sample ID: 890-2163-11

Date Collected: 03/31/22 10:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/22 11:22	04/04/22 16:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/04/22 11:22	04/04/22 16:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/04/22 09:02	04/04/22 15:18	1
o-Terphenyl	97		70 - 130				04/04/22 09:02	04/04/22 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	423		5.00		mg/Kg			04/07/22 12:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS01

Lab Sample ID: 890-2163-13

Date Collected: 03/31/22 13:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 17:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 17:23	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/04/22 11:22	04/04/22 17:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	04/04/22 09:02	04/04/22 16:00	1
o-Terphenyl	110		70 - 130	04/04/22 09:02	04/04/22 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.2		4.97		mg/Kg			04/07/22 12:46	1

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 17:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 17:44	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 17:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/04/22 09:02	04/04/22 16:22	1
o-Terphenyl	119		70 - 130				04/04/22 09:02	04/04/22 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.55		4.95		mg/Kg			04/07/22 01:55	1

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 18:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/04/22 11:22	04/04/22 18:04	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 18:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/04/22 09:02	04/04/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/04/22 09:02	04/04/22 16:43	1
o-Terphenyl	109		70 - 130				04/04/22 09:02	04/04/22 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		5.00		mg/Kg			04/07/22 02:21	1

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/04/22 11:22	04/04/22 18:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 18:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 09:02	04/04/22 17:04	1
o-Terphenyl	111		70 - 130				04/04/22 09:02	04/04/22 17:04	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.17		4.96		mg/Kg			04/07/22 02:30	1

Client Sample ID: FS05

Lab Sample ID: 890-2163-17

Date Collected: 03/31/22 14:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:22	04/04/22 18:45	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/04/22 11:22	04/04/22 18:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/04/22 09:02	04/04/22 17:25	1
o-Terphenyl	107		70 - 130				04/04/22 09:02	04/04/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		5.00		mg/Kg			04/07/22 02:39	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS06

Lab Sample ID: 890-2163-18

Date Collected: 03/31/22 14:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	04/04/22 11:22	04/04/22 19:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130	04/04/22 11:22	04/04/22 19:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 09:02	04/04/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/04/22 09:02	04/04/22 17:46	1
o-Terphenyl	112		70 - 130	04/04/22 09:02	04/04/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.52		4.97		mg/Kg			04/07/22 02:48	1

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:22	04/04/22 19:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:22	04/04/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	70 - 130	04/04/22 11:22	04/04/22 19:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	04/04/22 11:22	04/04/22 19:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 18:07	1
o-Terphenyl	110		70 - 130				04/04/22 09:02	04/04/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.31		5.00		mg/Kg			04/07/22 03:14	1

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 19:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:22	04/04/22 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 19:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130	04/04/22 11:22	04/04/22 19:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/04/22 09:02	04/04/22 18:29	1
o-Terphenyl	110		70 - 130				04/04/22 09:02	04/04/22 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		4.95		mg/Kg			04/07/22 03:23	1

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Toluene	<0.00198	U F1	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/04/22 11:00	04/05/22 11:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/04/22 11:00	04/05/22 11:53	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/04/22 11:00	04/05/22 11:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/04/22 09:02	04/04/22 18:50	1
o-Terphenyl	107		70 - 130				04/04/22 09:02	04/04/22 18:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		5.04		mg/Kg			04/07/22 03:32	1

Client Sample ID: FS10

Lab Sample ID: 890-2163-22

Date Collected: 03/31/22 15:20

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/04/22 11:00	04/05/22 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				04/04/22 11:00	04/05/22 12:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				04/04/22 11:00	04/05/22 12:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 09:02	04/04/22 19:11	1
o-Terphenyl	109		70 - 130				04/04/22 09:02	04/04/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			04/07/22 03:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS11

Lab Sample ID: 890-2163-23

Date Collected: 03/31/22 15:40

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/04/22 11:00	04/05/22 12:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/04/22 11:00	04/05/22 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/04/22 11:00	04/05/22 12:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130	04/04/22 11:00	04/05/22 12:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	04/04/22 11:43	04/05/22 00:50	1
o-Terphenyl	117		70 - 130	04/04/22 11:43	04/05/22 00:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.97		4.95		mg/Kg			04/07/22 03:50	1

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 12:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/04/22 11:00	04/05/22 12:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	04/04/22 11:00	04/05/22 12:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/04/22 11:43	04/05/22 01:10	1
o-Terphenyl	111		70 - 130				04/04/22 11:43	04/05/22 01:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			04/07/22 03:59	1

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/04/22 11:00	04/05/22 13:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/04/22 11:00	04/05/22 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/04/22 11:00	04/05/22 13:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	04/04/22 11:00	04/05/22 13:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/04/22 11:43	04/05/22 01:31	1
o-Terphenyl	113		70 - 130				04/04/22 11:43	04/05/22 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.30		5.02		mg/Kg			04/07/22 04:25	1

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				04/04/22 11:00	04/05/22 13:37	1
1,4-Difluorobenzene (Surr)	106		70 - 130				04/04/22 11:00	04/05/22 13:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/04/22 11:43	04/05/22 01:52	1
o-Terphenyl	104		70 - 130				04/04/22 11:43	04/05/22 01:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.8		4.99		mg/Kg			04/07/22 04:34	1

Client Sample ID: SW03

Lab Sample ID: 890-2163-27

Date Collected: 03/31/22 15:25

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/04/22 11:00	04/05/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/04/22 11:00	04/05/22 13:58	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/04/22 11:00	04/05/22 13:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/04/22 11:43	04/05/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				04/04/22 11:43	04/05/22 02:12	1
o-Terphenyl	105		70 - 130				04/04/22 11:43	04/05/22 02:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 05:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW04

Lab Sample ID: 890-2163-28

Date Collected: 03/31/22 15:30

Matrix: Solid

Date Received: 04/01/22 13:42

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/04/22 11:00	04/05/22 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/04/22 11:00	04/05/22 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/04/22 11:00	04/05/22 14:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130	04/04/22 11:00	04/05/22 14:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/05/22 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/05/22 10:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/05/22 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	04/04/22 11:43	04/05/22 02:33	1
o-Terphenyl	104		70 - 130	04/04/22 11:43	04/05/22 02:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.45		4.98		mg/Kg			04/07/22 05:09	1

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Surrogate Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2163-1	PH01	108	103
890-2163-1 MS	PH01	110	112
890-2163-1 MSD	PH01	113	107
890-2163-2	PH01A	142 S1+	107
890-2163-3	PH02	104	108
890-2163-4	PH02A	103	107
890-2163-5	PH02B	106	108
890-2163-6	PH02C	108	109
890-2163-8	PH03	104	108
890-2163-9	PH03A	108	99
890-2163-10	PH03B	108	109
890-2163-11	PH03C	107	104
890-2163-13	FS01	107	110
890-2163-14	FS02	107	108
890-2163-15	FS03	106	108
890-2163-16	FS04	104	108
890-2163-17	FS05	108	110
890-2163-18	FS06	105	108
890-2163-19	FS07	47 S1-	97
890-2163-20	FS08	104	107
890-2163-21	FS09	108	106
890-2163-21 MS	FS09	120	97
890-2163-21 MSD	FS09	128	97
890-2163-22	FS10	141 S1+	110
890-2163-23	FS11	113	102
890-2163-24	FS12	114	103
890-2163-25	SW01	116	105
890-2163-26	SW02	107	106
890-2163-27	SW03	109	105
890-2163-28	SW04	118	110
LCS 880-22857/1-A	Lab Control Sample	119	95
LCS 880-22923/1-A	Lab Control Sample	104	110
LCSD 880-22857/2-A	Lab Control Sample Dup	101	106
LCSD 880-22923/2-A	Lab Control Sample Dup	105	111
MB 880-22857/5-A	Method Blank	117	101
MB 880-22923/5-A	Method Blank	102	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-13187-A-1-F MS	Matrix Spike	90	97
880-13187-A-1-G MSD	Matrix Spike Duplicate	91	96
890-2163-1	PH01	98	119

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Surrogate Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2163-1 MS	PH01	87	96
890-2163-1 MSD	PH01	89	98
890-2163-2	PH01A	95	113
890-2163-3	PH02	94	112
890-2163-4	PH02A	94	111
890-2163-5	PH02B	94	113
890-2163-6	PH02C	99	117
890-2163-8	PH03	114	135 S1+
890-2163-9	PH03A	130	149 S1+
890-2163-10	PH03B	108	128
890-2163-11	PH03C	84	97
890-2163-13	FS01	94	110
890-2163-14	FS02	100	119
890-2163-15	FS03	92	109
890-2163-16	FS04	94	111
890-2163-17	FS05	91	107
890-2163-18	FS06	96	112
890-2163-19	FS07	95	110
890-2163-20	FS08	97	110
890-2163-21	FS09	93	107
890-2163-22	FS10	95	109
890-2163-23	FS11	98	117
890-2163-24	FS12	95	111
890-2163-25	SW01	97	113
890-2163-26	SW02	94	104
890-2163-27	SW03	93	105
890-2163-28	SW04	92	104
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-22891/2-A	Lab Control Sample	110	134 S1+
LCS 880-22935/2-A	Lab Control Sample	97	116
LCSD 880-22891/3-A	Lab Control Sample Dup	110	133 S1+
LCSD 880-22935/3-A	Lab Control Sample Dup	99	118
MB 880-22891/1-A	Method Blank	103	127
MB 880-22935/1-A	Method Blank	107	127
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22857/5-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:00	04/05/22 11:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/04/22 11:00	04/05/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	04/04/22 11:00	04/05/22 11:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/04/22 11:00	04/05/22 11:31	1

Lab Sample ID: LCS 880-22857/1-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09765		mg/Kg		98	70 - 130
Toluene	0.100	0.09729		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1125		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2478		mg/Kg		124	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)	95		70 - 130

Lab Sample ID: LCSD 880-22857/2-A

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	4	35
Toluene	0.100	0.08446		mg/Kg		84	70 - 130	14	35
Ethylbenzene	0.100	0.08933		mg/Kg		89	70 - 130	23	35
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	26	35
o-Xylene	0.100	0.09436		mg/Kg		94	70 - 130	25	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2163-21 MS

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0990	0.06990		mg/Kg		70	70 - 130
Toluene	<0.00198	U F1	0.0990	0.06796	F1	mg/Kg		69	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-21 MS

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0990	0.07531		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.198	0.1655		mg/Kg		84	70 - 130
o-Xylene	<0.00198	U	0.0990	0.08243		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2163-21 MSD

Matrix: Solid

Analysis Batch: 22894

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 22857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.07212		mg/Kg		72	70 - 130	3	35
Toluene	<0.00198	U F1	0.100	0.06674	F1	mg/Kg		67	70 - 130	2	35
Ethylbenzene	<0.00198	U	0.100	0.06975		mg/Kg		70	70 - 130	8	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1544		mg/Kg		77	70 - 130	7	35
o-Xylene	<0.00198	U	0.100	0.07847		mg/Kg		78	70 - 130	5	35

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

Lab Sample ID: MB 880-22923/5-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/04/22 11:22	04/04/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/04/22 11:22	04/04/22 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/04/22 11:22	04/04/22 12:34	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/04/22 11:22	04/04/22 12:34	1

Lab Sample ID: LCS 880-22923/1-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09202		mg/Kg		92	70 - 130
Toluene	0.100	0.09234		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09643		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: LCS 880-22923/1-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09804		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-22923/2-A

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09272		mg/Kg		93	70 - 130	1	35
Toluene	0.100	0.09322		mg/Kg		93	70 - 130	1	35
Ethylbenzene	0.100	0.09722		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2019		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.09866		mg/Kg		99	70 - 130	1	35

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

Lab Sample ID: 890-2163-1 MS

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.1018		mg/Kg		102	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2259		mg/Kg		113	70 - 130
o-Xylene	<0.00200	U	0.100	0.1108		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0998	0.07953		mg/Kg		80	70 - 130	24	35
Toluene	<0.00200	U	0.0998	0.09376		mg/Kg		94	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0998	0.1059		mg/Kg		106	70 - 130	1	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2120		mg/Kg		106	70 - 130	6	35
o-Xylene	<0.00200	U	0.0998	0.1052		mg/Kg		105	70 - 130	5	35

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22892

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22923

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-22891/1-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22891

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 09:02	04/04/22 10:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	103		70 - 130				04/04/22 09:02	04/04/22 10:21	1	
o-Terphenyl	127		70 - 130				04/04/22 09:02	04/04/22 10:21	1	

Lab Sample ID: LCS 880-22891/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22891

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	972.7		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1150		mg/Kg		115	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	110		70 - 130							
o-Terphenyl	134	S1+	70 - 130							

Lab Sample ID: LCSD 880-22891/3-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22891

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	929.1		mg/Kg		93	70 - 130	5	20	
Diesel Range Organics (Over C10-C28)			1000	1116		mg/Kg		112	70 - 130	3	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	110		70 - 130									
o-Terphenyl	133	S1+	70 - 130									

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: 890-2163-1 MS

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	916.1		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	821.2		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-2163-1 MSD

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 22891

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	<49.8	U	998	960.3		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	842.5		mg/Kg		82	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	98		70 - 130								

Lab Sample ID: MB 880-22935/1-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/04/22 11:43	04/04/22 22:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/04/22 11:43	04/04/22 22:23	1
o-Terphenyl	127		70 - 130				04/04/22 11:43	04/04/22 22:23	1

Lab Sample ID: LCS 880-22935/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	841.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	987.3		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Lab Sample ID: LCS 880-22935/2-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22935

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-22935/3-A

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22935

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	837.8		mg/Kg		84	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)			1000	992.0		mg/Kg		99	70 - 130	0	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	99		70 - 130									
o-Terphenyl	118		70 - 130									

Lab Sample ID: 880-13187-A-1-F MS

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22935

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	883.5		mg/Kg		87	70 - 130			
Diesel Range Organics (Over C10-C28)	54.3		998	829.4		mg/Kg		78	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	90		70 - 130									
o-Terphenyl	97		70 - 130									

Lab Sample ID: 880-13187-A-1-G MSD

Matrix: Solid

Analysis Batch: 22887

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22935

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	921.7		mg/Kg		90	70 - 130	4	20	
Diesel Range Organics (Over C10-C28)	54.3		998	834.8		mg/Kg		78	70 - 130	1	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	91		70 - 130									
o-Terphenyl	96		70 - 130									

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22977/1-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 08:29	1

Lab Sample ID: LCS 880-22977/2-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.7		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-22977/3-A

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-2163-2 MS

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.95		250	254.8		mg/Kg		99	90 - 110

Lab Sample ID: 890-2163-2 MSD

Matrix: Solid

Analysis Batch: 23045

Client Sample ID: PH01A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.95		250	255.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-22978/1-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/07/22 01:28	1

Lab Sample ID: LCS 880-22978/2-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22978/3-A

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.3		mg/Kg		98	90 - 110	2	20

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QC Sample Results

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2163-14 MS

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	9.55		248	250.1		mg/Kg		97	90 - 110		

Lab Sample ID: 890-2163-14 MSD

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.55		248	250.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 890-2163-24 MS

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<4.99	U	250	242.1		mg/Kg		96	90 - 110		

Lab Sample ID: 890-2163-24 MSD

Matrix: Solid

Analysis Batch: 23089

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.99	U	250	242.6		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA

Prep Batch: 22857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	5035	
890-2163-22	FS10	Total/NA	Solid	5035	
890-2163-23	FS11	Total/NA	Solid	5035	
890-2163-24	FS12	Total/NA	Solid	5035	
890-2163-25	SW01	Total/NA	Solid	5035	
890-2163-26	SW02	Total/NA	Solid	5035	
890-2163-27	SW03	Total/NA	Solid	5035	
890-2163-28	SW04	Total/NA	Solid	5035	
MB 880-22857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2163-21 MS	FS09	Total/NA	Solid	5035	
890-2163-21 MSD	FS09	Total/NA	Solid	5035	

Analysis Batch: 22892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8021B	22923
890-2163-2	PH01A	Total/NA	Solid	8021B	22923
890-2163-3	PH02	Total/NA	Solid	8021B	22923
890-2163-4	PH02A	Total/NA	Solid	8021B	22923
890-2163-5	PH02B	Total/NA	Solid	8021B	22923
890-2163-6	PH02C	Total/NA	Solid	8021B	22923
890-2163-8	PH03	Total/NA	Solid	8021B	22923
890-2163-9	PH03A	Total/NA	Solid	8021B	22923
890-2163-10	PH03B	Total/NA	Solid	8021B	22923
890-2163-11	PH03C	Total/NA	Solid	8021B	22923
890-2163-13	FS01	Total/NA	Solid	8021B	22923
890-2163-14	FS02	Total/NA	Solid	8021B	22923
890-2163-15	FS03	Total/NA	Solid	8021B	22923
890-2163-16	FS04	Total/NA	Solid	8021B	22923
890-2163-17	FS05	Total/NA	Solid	8021B	22923
890-2163-18	FS06	Total/NA	Solid	8021B	22923
890-2163-19	FS07	Total/NA	Solid	8021B	22923
890-2163-20	FS08	Total/NA	Solid	8021B	22923
MB 880-22923/5-A	Method Blank	Total/NA	Solid	8021B	22923
LCS 880-22923/1-A	Lab Control Sample	Total/NA	Solid	8021B	22923
LCSD 880-22923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22923
890-2163-1 MS	PH01	Total/NA	Solid	8021B	22923
890-2163-1 MSD	PH01	Total/NA	Solid	8021B	22923

Analysis Batch: 22894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	8021B	22857
890-2163-22	FS10	Total/NA	Solid	8021B	22857
890-2163-23	FS11	Total/NA	Solid	8021B	22857
890-2163-24	FS12	Total/NA	Solid	8021B	22857
890-2163-25	SW01	Total/NA	Solid	8021B	22857
890-2163-26	SW02	Total/NA	Solid	8021B	22857
890-2163-27	SW03	Total/NA	Solid	8021B	22857
890-2163-28	SW04	Total/NA	Solid	8021B	22857
MB 880-22857/5-A	Method Blank	Total/NA	Solid	8021B	22857

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA (Continued)

Analysis Batch: 22894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-22857/1-A	Lab Control Sample	Total/NA	Solid	8021B	22857
LCSD 880-22857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22857
890-2163-21 MS	FS09	Total/NA	Solid	8021B	22857
890-2163-21 MSD	FS09	Total/NA	Solid	8021B	22857

Prep Batch: 22923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	5035	
890-2163-2	PH01A	Total/NA	Solid	5035	
890-2163-3	PH02	Total/NA	Solid	5035	
890-2163-4	PH02A	Total/NA	Solid	5035	
890-2163-5	PH02B	Total/NA	Solid	5035	
890-2163-6	PH02C	Total/NA	Solid	5035	
890-2163-8	PH03	Total/NA	Solid	5035	
890-2163-9	PH03A	Total/NA	Solid	5035	
890-2163-10	PH03B	Total/NA	Solid	5035	
890-2163-11	PH03C	Total/NA	Solid	5035	
890-2163-13	FS01	Total/NA	Solid	5035	
890-2163-14	FS02	Total/NA	Solid	5035	
890-2163-15	FS03	Total/NA	Solid	5035	
890-2163-16	FS04	Total/NA	Solid	5035	
890-2163-17	FS05	Total/NA	Solid	5035	
890-2163-18	FS06	Total/NA	Solid	5035	
890-2163-19	FS07	Total/NA	Solid	5035	
890-2163-20	FS08	Total/NA	Solid	5035	
MB 880-22923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2163-1 MS	PH01	Total/NA	Solid	5035	
890-2163-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 23039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	Total BTEX	
890-2163-2	PH01A	Total/NA	Solid	Total BTEX	
890-2163-3	PH02	Total/NA	Solid	Total BTEX	
890-2163-4	PH02A	Total/NA	Solid	Total BTEX	
890-2163-5	PH02B	Total/NA	Solid	Total BTEX	
890-2163-6	PH02C	Total/NA	Solid	Total BTEX	
890-2163-8	PH03	Total/NA	Solid	Total BTEX	
890-2163-9	PH03A	Total/NA	Solid	Total BTEX	
890-2163-10	PH03B	Total/NA	Solid	Total BTEX	
890-2163-11	PH03C	Total/NA	Solid	Total BTEX	
890-2163-13	FS01	Total/NA	Solid	Total BTEX	
890-2163-14	FS02	Total/NA	Solid	Total BTEX	
890-2163-15	FS03	Total/NA	Solid	Total BTEX	
890-2163-16	FS04	Total/NA	Solid	Total BTEX	
890-2163-17	FS05	Total/NA	Solid	Total BTEX	
890-2163-18	FS06	Total/NA	Solid	Total BTEX	
890-2163-19	FS07	Total/NA	Solid	Total BTEX	
890-2163-20	FS08	Total/NA	Solid	Total BTEX	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC VOA (Continued)

Analysis Batch: 23039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-21	FS09	Total/NA	Solid	Total BTEX	
890-2163-22	FS10	Total/NA	Solid	Total BTEX	
890-2163-23	FS11	Total/NA	Solid	Total BTEX	
890-2163-24	FS12	Total/NA	Solid	Total BTEX	
890-2163-25	SW01	Total/NA	Solid	Total BTEX	
890-2163-26	SW02	Total/NA	Solid	Total BTEX	
890-2163-27	SW03	Total/NA	Solid	Total BTEX	
890-2163-28	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015B NM	22891
890-2163-2	PH01A	Total/NA	Solid	8015B NM	22891
890-2163-3	PH02	Total/NA	Solid	8015B NM	22891
890-2163-4	PH02A	Total/NA	Solid	8015B NM	22891
890-2163-5	PH02B	Total/NA	Solid	8015B NM	22891
890-2163-6	PH02C	Total/NA	Solid	8015B NM	22891
890-2163-8	PH03	Total/NA	Solid	8015B NM	22891
890-2163-9	PH03A	Total/NA	Solid	8015B NM	22891
890-2163-10	PH03B	Total/NA	Solid	8015B NM	22891
890-2163-11	PH03C	Total/NA	Solid	8015B NM	22891
890-2163-13	FS01	Total/NA	Solid	8015B NM	22891
890-2163-14	FS02	Total/NA	Solid	8015B NM	22891
890-2163-15	FS03	Total/NA	Solid	8015B NM	22891
890-2163-16	FS04	Total/NA	Solid	8015B NM	22891
890-2163-17	FS05	Total/NA	Solid	8015B NM	22891
890-2163-18	FS06	Total/NA	Solid	8015B NM	22891
890-2163-19	FS07	Total/NA	Solid	8015B NM	22891
890-2163-20	FS08	Total/NA	Solid	8015B NM	22891
890-2163-21	FS09	Total/NA	Solid	8015B NM	22891
890-2163-22	FS10	Total/NA	Solid	8015B NM	22891
890-2163-23	FS11	Total/NA	Solid	8015B NM	22935
890-2163-24	FS12	Total/NA	Solid	8015B NM	22935
890-2163-25	SW01	Total/NA	Solid	8015B NM	22935
890-2163-26	SW02	Total/NA	Solid	8015B NM	22935
890-2163-27	SW03	Total/NA	Solid	8015B NM	22935
890-2163-28	SW04	Total/NA	Solid	8015B NM	22935
MB 880-22891/1-A	Method Blank	Total/NA	Solid	8015B NM	22891
MB 880-22935/1-A	Method Blank	Total/NA	Solid	8015B NM	22935
LCS 880-22891/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22891
LCS 880-22935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22935
LCSD 880-22891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22891
LCSD 880-22935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22935
880-13187-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	22935
880-13187-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22935
890-2163-1 MS	PH01	Total/NA	Solid	8015B NM	22891
890-2163-1 MSD	PH01	Total/NA	Solid	8015B NM	22891

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC Semi VOA

Prep Batch: 22891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015NM Prep	
890-2163-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2163-3	PH02	Total/NA	Solid	8015NM Prep	
890-2163-4	PH02A	Total/NA	Solid	8015NM Prep	
890-2163-5	PH02B	Total/NA	Solid	8015NM Prep	
890-2163-6	PH02C	Total/NA	Solid	8015NM Prep	
890-2163-8	PH03	Total/NA	Solid	8015NM Prep	
890-2163-9	PH03A	Total/NA	Solid	8015NM Prep	
890-2163-10	PH03B	Total/NA	Solid	8015NM Prep	
890-2163-11	PH03C	Total/NA	Solid	8015NM Prep	
890-2163-13	FS01	Total/NA	Solid	8015NM Prep	
890-2163-14	FS02	Total/NA	Solid	8015NM Prep	
890-2163-15	FS03	Total/NA	Solid	8015NM Prep	
890-2163-16	FS04	Total/NA	Solid	8015NM Prep	
890-2163-17	FS05	Total/NA	Solid	8015NM Prep	
890-2163-18	FS06	Total/NA	Solid	8015NM Prep	
890-2163-19	FS07	Total/NA	Solid	8015NM Prep	
890-2163-20	FS08	Total/NA	Solid	8015NM Prep	
890-2163-21	FS09	Total/NA	Solid	8015NM Prep	
890-2163-22	FS10	Total/NA	Solid	8015NM Prep	
MB 880-22891/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22891/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2163-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-2163-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 22935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-23	FS11	Total/NA	Solid	8015NM Prep	
890-2163-24	FS12	Total/NA	Solid	8015NM Prep	
890-2163-25	SW01	Total/NA	Solid	8015NM Prep	
890-2163-26	SW02	Total/NA	Solid	8015NM Prep	
890-2163-27	SW03	Total/NA	Solid	8015NM Prep	
890-2163-28	SW04	Total/NA	Solid	8015NM Prep	
MB 880-22935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13187-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13187-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Total/NA	Solid	8015 NM	
890-2163-2	PH01A	Total/NA	Solid	8015 NM	
890-2163-3	PH02	Total/NA	Solid	8015 NM	
890-2163-4	PH02A	Total/NA	Solid	8015 NM	
890-2163-5	PH02B	Total/NA	Solid	8015 NM	
890-2163-6	PH02C	Total/NA	Solid	8015 NM	
890-2163-8	PH03	Total/NA	Solid	8015 NM	
890-2163-9	PH03A	Total/NA	Solid	8015 NM	
890-2163-10	PH03B	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

GC Semi VOA (Continued)

Analysis Batch: 23014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-11	PH03C	Total/NA	Solid	8015 NM	
890-2163-13	FS01	Total/NA	Solid	8015 NM	
890-2163-14	FS02	Total/NA	Solid	8015 NM	
890-2163-15	FS03	Total/NA	Solid	8015 NM	
890-2163-16	FS04	Total/NA	Solid	8015 NM	
890-2163-17	FS05	Total/NA	Solid	8015 NM	
890-2163-18	FS06	Total/NA	Solid	8015 NM	
890-2163-19	FS07	Total/NA	Solid	8015 NM	
890-2163-20	FS08	Total/NA	Solid	8015 NM	
890-2163-21	FS09	Total/NA	Solid	8015 NM	
890-2163-22	FS10	Total/NA	Solid	8015 NM	
890-2163-23	FS11	Total/NA	Solid	8015 NM	
890-2163-24	FS12	Total/NA	Solid	8015 NM	
890-2163-25	SW01	Total/NA	Solid	8015 NM	
890-2163-26	SW02	Total/NA	Solid	8015 NM	
890-2163-27	SW03	Total/NA	Solid	8015 NM	
890-2163-28	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Soluble	Solid	DI Leach	
890-2163-2	PH01A	Soluble	Solid	DI Leach	
890-2163-3	PH02	Soluble	Solid	DI Leach	
890-2163-4	PH02A	Soluble	Solid	DI Leach	
890-2163-5	PH02B	Soluble	Solid	DI Leach	
890-2163-6	PH02C	Soluble	Solid	DI Leach	
890-2163-8	PH03	Soluble	Solid	DI Leach	
890-2163-9	PH03A	Soluble	Solid	DI Leach	
890-2163-10	PH03B	Soluble	Solid	DI Leach	
890-2163-11	PH03C	Soluble	Solid	DI Leach	
890-2163-13	FS01	Soluble	Solid	DI Leach	
MB 880-22977/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2163-2 MS	PH01A	Soluble	Solid	DI Leach	
890-2163-2 MSD	PH01A	Soluble	Solid	DI Leach	

Leach Batch: 22978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-14	FS02	Soluble	Solid	DI Leach	
890-2163-15	FS03	Soluble	Solid	DI Leach	
890-2163-16	FS04	Soluble	Solid	DI Leach	
890-2163-17	FS05	Soluble	Solid	DI Leach	
890-2163-18	FS06	Soluble	Solid	DI Leach	
890-2163-19	FS07	Soluble	Solid	DI Leach	
890-2163-20	FS08	Soluble	Solid	DI Leach	
890-2163-21	FS09	Soluble	Solid	DI Leach	
890-2163-22	FS10	Soluble	Solid	DI Leach	
890-2163-23	FS11	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

HPLC/IC (Continued)

Leach Batch: 22978 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-24	FS12	Soluble	Solid	DI Leach	
890-2163-25	SW01	Soluble	Solid	DI Leach	
890-2163-26	SW02	Soluble	Solid	DI Leach	
890-2163-27	SW03	Soluble	Solid	DI Leach	
890-2163-28	SW04	Soluble	Solid	DI Leach	
MB 880-22978/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22978/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22978/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2163-14 MS	FS02	Soluble	Solid	DI Leach	
890-2163-14 MSD	FS02	Soluble	Solid	DI Leach	
890-2163-24 MS	FS12	Soluble	Solid	DI Leach	
890-2163-24 MSD	FS12	Soluble	Solid	DI Leach	

Analysis Batch: 23045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-1	PH01	Soluble	Solid	300.0	22977
890-2163-2	PH01A	Soluble	Solid	300.0	22977
890-2163-3	PH02	Soluble	Solid	300.0	22977
890-2163-4	PH02A	Soluble	Solid	300.0	22977
890-2163-5	PH02B	Soluble	Solid	300.0	22977
890-2163-6	PH02C	Soluble	Solid	300.0	22977
890-2163-8	PH03	Soluble	Solid	300.0	22977
890-2163-9	PH03A	Soluble	Solid	300.0	22977
890-2163-10	PH03B	Soluble	Solid	300.0	22977
890-2163-11	PH03C	Soluble	Solid	300.0	22977
890-2163-13	FS01	Soluble	Solid	300.0	22977
MB 880-22977/1-A	Method Blank	Soluble	Solid	300.0	22977
LCS 880-22977/2-A	Lab Control Sample	Soluble	Solid	300.0	22977
LCSD 880-22977/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22977
890-2163-2 MS	PH01A	Soluble	Solid	300.0	22977
890-2163-2 MSD	PH01A	Soluble	Solid	300.0	22977

Analysis Batch: 23089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2163-14	FS02	Soluble	Solid	300.0	22978
890-2163-15	FS03	Soluble	Solid	300.0	22978
890-2163-16	FS04	Soluble	Solid	300.0	22978
890-2163-17	FS05	Soluble	Solid	300.0	22978
890-2163-18	FS06	Soluble	Solid	300.0	22978
890-2163-19	FS07	Soluble	Solid	300.0	22978
890-2163-20	FS08	Soluble	Solid	300.0	22978
890-2163-21	FS09	Soluble	Solid	300.0	22978
890-2163-22	FS10	Soluble	Solid	300.0	22978
890-2163-23	FS11	Soluble	Solid	300.0	22978
890-2163-24	FS12	Soluble	Solid	300.0	22978
890-2163-25	SW01	Soluble	Solid	300.0	22978
890-2163-26	SW02	Soluble	Solid	300.0	22978
890-2163-27	SW03	Soluble	Solid	300.0	22978
890-2163-28	SW04	Soluble	Solid	300.0	22978
MB 880-22978/1-A	Method Blank	Soluble	Solid	300.0	22978
LCS 880-22978/2-A	Lab Control Sample	Soluble	Solid	300.0	22978

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QC Association Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

HPLC/IC (Continued)

Analysis Batch: 23089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22978/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22978
890-2163-14 MS	FS02	Soluble	Solid	300.0	22978
890-2163-14 MSD	FS02	Soluble	Solid	300.0	22978
890-2163-24 MS	FS12	Soluble	Solid	300.0	22978
890-2163-24 MSD	FS12	Soluble	Solid	300.0	22978

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH01

Lab Sample ID: 890-2163-1

Date Collected: 03/31/22 10:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 11:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:42	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-2163-2

Date Collected: 03/31/22 10:05

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 12:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 10:51	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2163-3

Date Collected: 03/31/22 10:10

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 12:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:18	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 13:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH02A

Lab Sample ID: 890-2163-4

Date Collected: 03/31/22 10:20

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:26	CH	XEN MID

Client Sample ID: PH02B

Lab Sample ID: 890-2163-5

Date Collected: 03/31/22 11:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 11:53	CH	XEN MID

Client Sample ID: PH02C

Lab Sample ID: 890-2163-6

Date Collected: 03/31/22 11:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:02	CH	XEN MID

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 14:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:14	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: PH03

Lab Sample ID: 890-2163-8

Date Collected: 03/31/22 10:30

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		5			23045	04/07/22 12:11	CH	XEN MID

Client Sample ID: PH03A

Lab Sample ID: 890-2163-9

Date Collected: 03/31/22 10:35

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 15:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		20			23045	04/07/22 12:19	CH	XEN MID

Client Sample ID: PH03B

Lab Sample ID: 890-2163-10

Date Collected: 03/31/22 10:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 15:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 14:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		5			23045	04/07/22 12:28	CH	XEN MID

Client Sample ID: PH03C

Lab Sample ID: 890-2163-11

Date Collected: 03/31/22 10:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 16:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:37	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS01

Lab Sample ID: 890-2163-13

Date Collected: 03/31/22 13:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 17:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22977	04/04/22 16:16	SC	XEN MID
Soluble	Analysis	300.0		1			23045	04/07/22 12:46	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-2163-14

Date Collected: 03/31/22 13:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 17:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 01:55	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-2163-15

Date Collected: 03/31/22 13:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:21	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS04

Lab Sample ID: 890-2163-16

Date Collected: 03/31/22 14:00

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:30	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-2163-17

Date Collected: 03/31/22 14:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 18:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:39	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-2163-18

Date Collected: 03/31/22 14:40

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 02:48	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:07	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS07

Lab Sample ID: 890-2163-19

Date Collected: 03/31/22 14:50

Matrix: Solid

Date Received: 04/01/22 13:42

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	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:14	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-2163-20

Date Collected: 03/31/22 15:00

Matrix: Solid

Date Received: 04/01/22 13:42

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	22923	04/04/22 11:22	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22892	04/04/22 19:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:23	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-2163-21

Date Collected: 03/31/22 15:15

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 11:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:32	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-2163-22

Date Collected: 03/31/22 15:20

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22891	04/04/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/04/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:41	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: FS11

Lab Sample ID: 890-2163-23

Date Collected: 03/31/22 15:40

Matrix: Solid

Date Received: 04/01/22 13:42

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 00:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:50	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-2163-24

Date Collected: 03/31/22 15:45

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 03:59	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-2163-25

Date Collected: 03/31/22 15:05

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 04:25	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Client Sample ID: SW02

Lab Sample ID: 890-2163-26

Date Collected: 03/31/22 15:10

Matrix: Solid

Date Received: 04/01/22 13:42

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			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 04:34	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-2163-27

Date Collected: 03/31/22 15:25

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 13:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 02:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 05:01	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-2163-28

Date Collected: 03/31/22 15:30

Matrix: Solid

Date Received: 04/01/22 13:42

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	22857	04/04/22 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22894	04/05/22 14:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23039	04/05/22 14:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23014	04/05/22 10:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22935	04/04/22 11:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22887	04/05/22 02:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22978	04/04/22 16:23	SC	XEN MID
Soluble	Analysis	300.0		1			23089	04/07/22 05:09	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

Method Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Outrider CTB

Job ID: 890-2163-1
SDG: 03C1558001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2163-1	PH01	Solid	03/31/22 10:00	04/01/22 13:42	1
890-2163-2	PH01A	Solid	03/31/22 10:05	04/01/22 13:42	2
890-2163-3	PH02	Solid	03/31/22 10:10	04/01/22 13:42	1
890-2163-4	PH02A	Solid	03/31/22 10:20	04/01/22 13:42	2
890-2163-5	PH02B	Solid	03/31/22 11:30	04/01/22 13:42	3
890-2163-6	PH02C	Solid	03/31/22 11:40	04/01/22 13:42	4
890-2163-8	PH03	Solid	03/31/22 10:30	04/01/22 13:42	1
890-2163-9	PH03A	Solid	03/31/22 10:35	04/01/22 13:42	2
890-2163-10	PH03B	Solid	03/31/22 10:40	04/01/22 13:42	3
890-2163-11	PH03C	Solid	03/31/22 10:50	04/01/22 13:42	4
890-2163-13	FS01	Solid	03/31/22 13:00	04/01/22 13:42	1
890-2163-14	FS02	Solid	03/31/22 13:20	04/01/22 13:42	1
890-2163-15	FS03	Solid	03/31/22 13:40	04/01/22 13:42	2
890-2163-16	FS04	Solid	03/31/22 14:00	04/01/22 13:42	1
890-2163-17	FS05	Solid	03/31/22 14:30	04/01/22 13:42	1
890-2163-18	FS06	Solid	03/31/22 14:40	04/01/22 13:42	1
890-2163-19	FS07	Solid	03/31/22 14:50	04/01/22 13:42	1
890-2163-20	FS08	Solid	03/31/22 15:00	04/01/22 13:42	1
890-2163-21	FS09	Solid	03/31/22 15:15	04/01/22 13:42	4
890-2163-22	FS10	Solid	03/31/22 15:20	04/01/22 13:42	4
890-2163-23	FS11	Solid	03/31/22 15:40	04/01/22 13:42	1
890-2163-24	FS12	Solid	03/31/22 15:45	04/01/22 13:42	1
890-2163-25	SW01	Solid	03/31/22 15:05	04/01/22 13:42	0 - 2
890-2163-26	SW02	Solid	03/31/22 15:10	04/01/22 13:42	0 - 2
890-2163-27	SW03	Solid	03/31/22 15:25	04/01/22 13:42	0 - 4
890-2163-28	SW04	Solid	03/31/22 15:30	04/01/22 13:42	0 - 4

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 3

Project Manager:	Ben Belin	Bill to: (if different)	Adrian Baker
Company Name:	Ensolium	Company Name:	XTO Energy, Inc.
Address:	2351 W. Northwest Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 86220
Phone:	(979) 854-0852	Email:	bbelin@ensolium.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:	Dutridge CTR		Turn Around	
Project Number:	03C1558001		☐ Routine	☒ Rush
Project Location:	Xcelen County, NM		Due Date:	3 day
Sampler's Name:	Bryant, L		TAT starts the day received by the lab, if received by 4:30pm	
PO #:	44892201947871			
SAMPLE RECEIPT	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
	Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	10M2005
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:	3.0	
Total Containers:		Corrected Temperature:	3.0	

Parameters		Pres. Code																				
ANALYSIS REQUEST																						
RIDES (EPA: 300.0)																						
015)																						
0021																						
																						
890-2163 Chain of Custody																						
<table border="1"> <thead> <tr> <th colspan="2">Preservative Codes</th> </tr> </thead> <tbody> <tr> <td>None: NO</td> <td>DI Water: H₂O</td> </tr> <tr> <td>Cool: Cool</td> <td>MeOH: Me</td> </tr> <tr> <td>HCl: HC</td> <td>HNO₃: HN</td> </tr> <tr> <td>H₂SO₄: H₂</td> <td>NaOH: Na</td> </tr> <tr> <td>H₃PO₄: HP</td> <td></td> </tr> <tr> <td>NaHSO₄: NABIS</td> <td></td> </tr> <tr> <td>Na₂S₂O₃: NaSO₃</td> <td></td> </tr> <tr> <td>Zn Acetate+NaOH: Zn</td> <td></td> </tr> <tr> <td>NaOH+Ascorbic Acid: SAPC</td> <td></td> </tr> </tbody> </table>			Preservative Codes		None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me	HCl: HC	HNO ₃ : HN	H ₂ SO ₄ : H ₂	NaOH: Na	H ₃ PO ₄ : HP		NaHSO ₄ : NABIS		Na ₂ S ₂ O ₃ : NaSO ₃		Zn Acetate+NaOH: Zn		NaOH+Ascorbic Acid: SAPC	
Preservative Codes																						
None: NO	DI Water: H ₂ O																					
Cool: Cool	MeOH: Me																					
HCl: HC	HNO ₃ : HN																					
H ₂ SO ₄ : H ₂	NaOH: Na																					
H ₃ PO ₄ : HP																						
NaHSO ₄ : NABIS																						
Na ₂ S ₂ O ₃ : NaSO ₃																						
Zn Acetate+NaOH: Zn																						
NaOH+Ascorbic Acid: SAPC																						

[illegible]

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCPLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471			
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.							
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		
1 		4.1.22 7349					
3							
5							

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No: _____

Page 01 of 2
www.xenco.com

Project Manager:	Burke, Bill	Bill Co. (if different)	Adrian Baker
Company Name:	Ensolium	Company Name:	XTO Energy, Inc.
Address:	2351 W. Northwest Hwy Ste 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852	Email:	bburke11@ensolium.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:	Outfall CTB		Turn Around	
Project Number:	D3C1558021		☐ Routine	☒ Rush
Project Location:	Lea County, NM		Due Date:	3/24/14
Sampler's Name:	BunBell		TAT starts the day received by the lab, if received by 4:30pm	
PO #:	NAPPC201497571			
SAMPLE RECEIPT		Temp Blank:	Yes	No
Samples Received Intact:	Yes	No	Thermometer ID:	251
Cooler Custody Seals:	Yes	No	Correction Factor:	
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:
Total Containers:			Corrected Temperature:	
Parameters				
RIDES (EPA: 300.0)				
015)				
8021				
ANALYSIS REQUEST				
Preservative Codes				
None: NO	DI Water: H ₂ O			
Cool: Cool	MeOH: Me			
HCL: HC	HNO ₃ : HN			
H ₂ SO ₄ : H ₂	NaOH: Na			
H ₃ PO ₄ : HP				
NaHSO ₄ : NABIS				
Na ₂ S ₂ O ₃ : NaSO ₃				
Zn Acetate+NaOH: Zn				
NaOH+Ascorbic Acid: SAPC				

[illegible]

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	4.1.22 1843			
2					
3					
4					
5					

Revised Date: 08-25-2020 Rev: 20

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 3 of 3

Project Manager:	Ben Bell	Bill to: (if different)	Adrian Baker
Company Name:	Enxenco	Company Name:	XTO Energy, Inc.
Address:	2351 W North West Highway 1203	Address:	3104 E. Green Street
City, State ZIP:	Dallas, TX 75220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(972) 854-0852	Email:	

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:	Durbin CTB	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	03C1558001				
Project Location:	Lea County, NM	Due Date:	3 day		
Sampler's Name:	Ben Bell	TAT starts the day received by the lab, if received by 4:30pm			
PO #:	APP220147871				
SAMPLE RECEIPT					
Samples Received Intact:	Yes	No	Thermometer ID:	Yes	No
Cooler Custody Seals:	Yes	No	Correction Factor:	Yes	No
Sample Custody Seals:	Yes	No	Temperature Reading:	Yes	No
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
FS09	S	3/31/22	1515	4'	Long	1	CHLORIDES (EPA: 300.0)		None: NO DI Water: H ₂ O
FS10			1520	4'			TPH (8015)		Cool: Cool MeOH: Me
FS11			1540	1'			BTEX (8021)		HCL: HC HNO ₃ : HN
FS12			1545	1'					H ₂ SO ₄ : H ₂
SV01			1505	0-2'					H ₃ PO ₄ : HP
SV02			1510	0-2'					NaHSO ₄ : NABIS
SV03			1525	0-4'					Na ₂ S ₂ O ₅ : NaSO ₃
SV04			1530	0-4'					Zn Acetate+NaOH: Zn
									NaOH+Ascorbic Acid: SAPC

Lost Letter: 1056151001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-1-22 14:340			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2163-1

SDG Number: 03C1558001

Login Number: 2163

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: 890-2163-1

SDG Number: 03C1558001

Login Number: 2163

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/04/22 07:46 AM

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



APPENDIX E

NMOCD Notification

Baker, Adrian

From: Baker, Adrian
Sent: Tuesday, March 29, 2022 11:36 AM
To: ocdonline, emnrd, EMNRD
Cc: DelawareSpills /SM
Subject: XTO Site Activities for the week of March 29th

All,

XTO will be completing excavation and sampling activities at the following sites next week. We anticipate collecting final confirmation samples.

- Wednesday, March 30th – PLU 158 Battery / NAPP2202534347
- Thursday, March 31th – Outrider CTB / NAPP2201947871
- Friday, April 1st - Outrider CTB / NAPP2201947871

Adrian Baker

Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

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

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

CONDITIONS

Action 98929

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 98929
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/3/2022