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	NAPP2317832586
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.29924 Longitude -103.91340
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nash Deep East Battery	Site Type Tank Battery
Date Release Discovered 06/20/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	18	23S	30E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 16.98	Volume Recovered (bbls) 10.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release	Internal corrosion on the water leg released fluids to pad. All free fluids were recovered. A third-party contractor has been retained for remediation purposes.	

Received by OCD: 9/15/2023 12:42:05 PM

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2317832586
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Garrett Green Title: SSHE Coordinator

Signature: Garrett Green Date: 6/26/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: Shelly Wells Date: 6/26/2023

Released to Imaging: 2/8/2024 8:29:30 AM

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2317832586
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>51 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2317832586
District RP	
Facility ID	
Application ID	

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

Printed Name: Garrett Green Title: SSHE Coordinator

Signature: Date: 09/13/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2317832586
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: Garrett Green Title: SSHE Coordinator

Signature: Date: 09/13/2023

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

ENSOLUM

September 13, 2023

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

Re: Deferral Request
Nash Deep East Battery
Incident Number NAPP2317832586
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document excavation and soil sampling activities at the Nash Deep East Battery (Site). The purpose of the site assessment and soil sampling activities was to address impacts to soil following a release of produced water onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing site assessment and excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2317832586 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in in Unit P, Section 18, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.29924°, -103.91340°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 20, 2023, internal corrosion on a water leg resulted in the release of approximately 16.98 barrels (bbls) of produced water onto the pad; 10 bbls of fluid were recovered. XTO submitted a Release Notification Form C-141 (Form C-141) on June 26, 2023. The release was assigned Incident Number NAPP2317832586

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS well 321742103552601 with a depth to water measurement of 66 feet below ground surface (bgs). The well is located 0.60 miles southeast of the Site and the most recent documented water level measurement was collected on May 06, 1993. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 590 feet west 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 underlain by unstable geology (high potential karst designation area). Potential site receptors are identified on Figure 1.

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

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

DELINEATION SOIL SAMPLING ACTIVITIES

On July 07, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven delineation soil samples (SS01 through SS07) were collected around and within the release extent at a depth 0.5 feet bgs to assess the lateral extent of impacted soil. The soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was collected and a photographic log is included in Appendix B.

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

Laboratory analytical results from delineation soil samples SS01 through SS03 indicated that chloride concentrations exceeded the Closure Criteria at 0.5 feet bgs. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the soil samples, additional delineation and excavation activities were warranted.

DELINEATION AND EXCAVATION ACTIVITIES

Between August 22, 2023 and August 24, 2023, Ensolum personnel were onsite to conduct delineation soil sampling and oversee the removal of impacted soils. Five boreholes (BH02 through BH06) were advanced via backhoe and two boreholes (BH01 & BH07) were advanced via hydrovac to determine the vertical extent of the impacted soil in the vicinity of delineation soil samples (SS01 through SS07). Boreholes BH01, BH02, and BH04 through BH07 were advanced to a depth of 2 feet bgs and borehole BH03 was advanced to a depth of 4 feet bgs. Soil from the boreholes was field screened for VOCs and chloride. Field screening results and observations from the boreholes were logged on a lithologic/soil

sampling log, which is included in Appendix C, and the locations of the boreholes are depicted on Figure 2.

This release occurred on the well pad near active production equipment and beneath active surface piping. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment; however, the accessible spill area was excavated to the maximum extent possible (MEP) with a hydrovac and trackhoe. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor of the excavation (FS01 through FS14) at depths ranging from 0.5 feet to 2.5 feet bgs and 5-point composite confirmation soil samples were collected every 200 feet from the sidewalls of the excavation (SW01 through SW06) at depths ranging from ground surface to 2.5 feet bgs.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 thouroughly mixing. Confirmation soil samples were handled and analyzed in the same manner as described above.

The excavation area measured approximately 2,641 square feet. A total of approximately 200 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Facility in Hobbs, New Mexico.

RESULTS

Laboratory analytical results for delineation soil sample SS01 through SS03 collected at a depth of 0.5 feet bgs indicated chloride concentrations exceeded the applicable Closure Criteria; however, the terminal sample (designated BH) collected at 2 feet bgs indicated all COC concentrations were compliant with the Closure Criteria, vertically defining the release extent. Results for delineation soil samples SS04 through SS07 indicated all COC concentrations met Closure Criteria, confirming the release did not extend off pad. Laboratory analytical results for delineation samples are summarized in Table 1.

Laboratory analytical results for confirmation soil samples indicated concentrations of COCs were all in compliance with the Site Closure Criteria, except confirmation sidewall samples SW02, SW03, and SW04 at depths ranging from ground surface to 2.5 feet bgs. These sidewall samples verify the presence of impacted soil beneath active production equipment and process piping. Confirmation sample locations are identified on Figure 3, laboratory anlaytical results are summarized in Table 2, and laboratory analytical reports are included in Appendix D. NMOCD notifications are provided in Appendix E.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and process piping preventing full excavation of impacted soil. The estimated area of remaining impacted soil measures approximately 1,246 square feet, and assuming a depth of 2 feet based on the analytical results from delineation boreholes BH01 through BH07, a total of approximately 92 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 4. The impacted soil is limited to the area beneath active production equipment and surface piping, where remediation would require a major facility deconstruction. The release extent has been laterally delineated by delineation soil samples SS01 through SS07 at 0.5 feet bgs and vertically delineated by borehole samples (BH01 through BH07) at 2 feet bgs. The impacted soil remaining in place is laterally and vertically defined by confirmation sidewall samples (SW02 through SW04), collected at ground surface to 2.5 feet bgs.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 66 feet, and the entirety of the release remained on pad. Any gross impacts were removed via scraping of the surface soils. Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2317832586 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely,
Ensolum, LLC

Ashley Giovengo
Senior Engineer

Ashley L. Ager, MS, PG
Principal

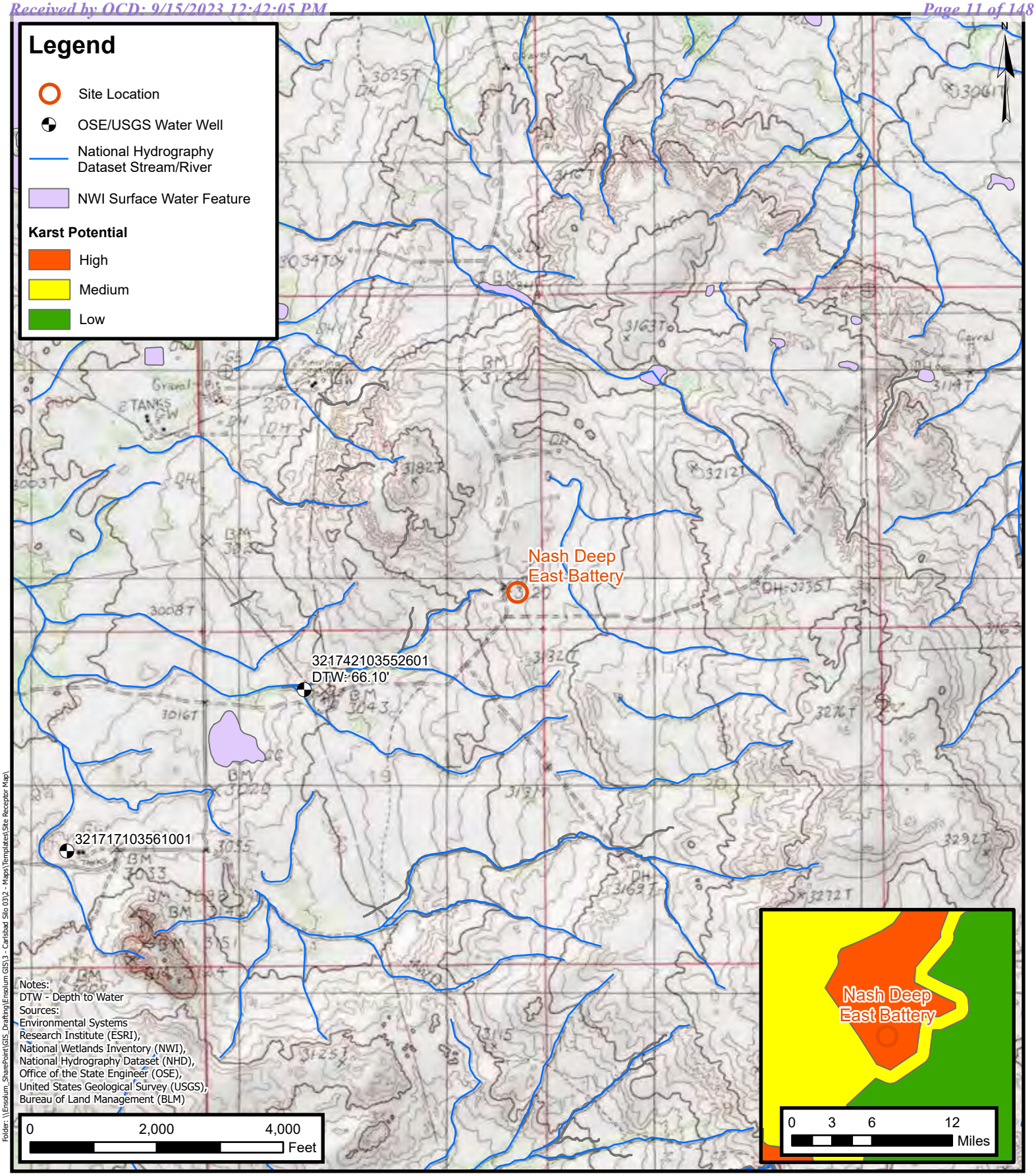
cc: Garrett Green, XTO
Tommee Lambert, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	Deferral Area Map
Table 1	Soil Sample Analytical Results – Delineation Soil Samples
Table 2	Soil Sample Analytical Results – Confirmation Soil Samples
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Sample Notification

ENSOLUM

FIGURES



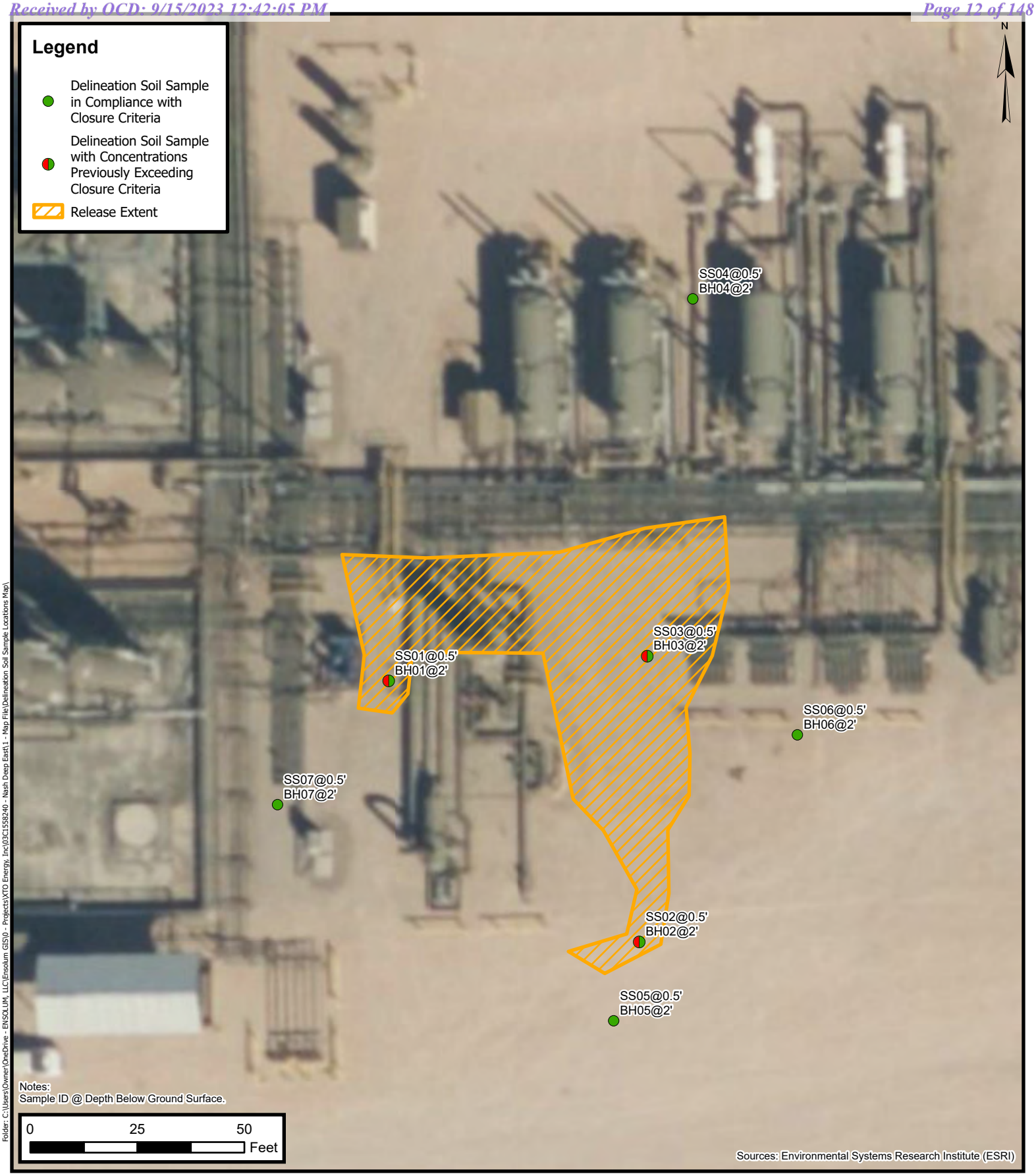
Folder: \\Ensolum_SharePoint\GIS_Drafting\Ensolum GIS\3 - Carlsbad Silo 0312 - Maps\Templates\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Nash Deep East Battery
Incident Number: nAPP2317832586
Unit P Section 18 Township 23S Range 30E
Eddy County, New Mexico

FIGURE 1



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558240 - Nash Deep East\1 - Map File\Delineation Soil Sample Locations Map\

ENSOLUM
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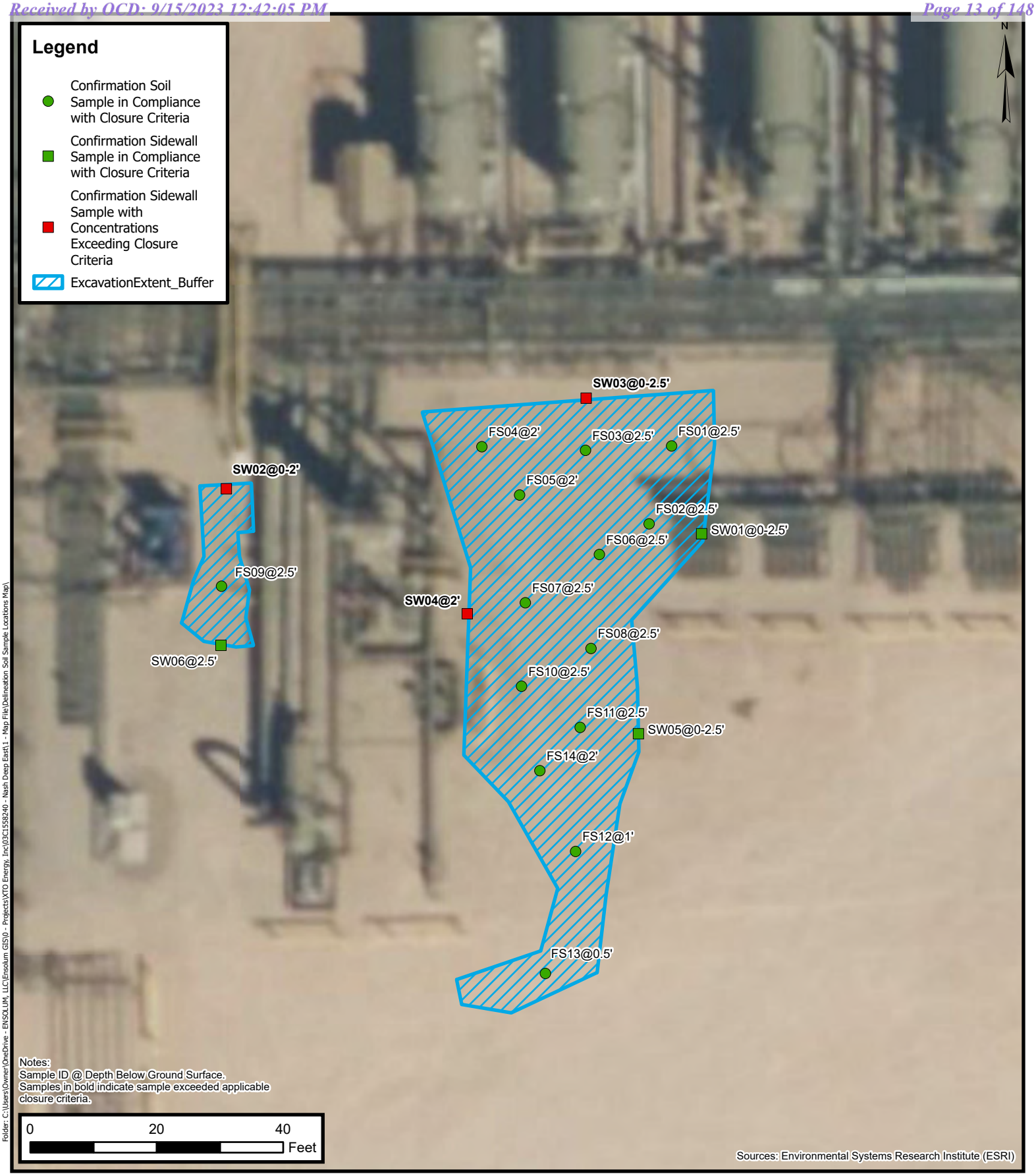
Delineation Soil Sample Locations

XTO Energy, Inc
Nash Deep East
Incident Number: nAPP2317832586
Unit P, Sec 18, T23S, R30E
Eddy County, NM

FIGURE 2



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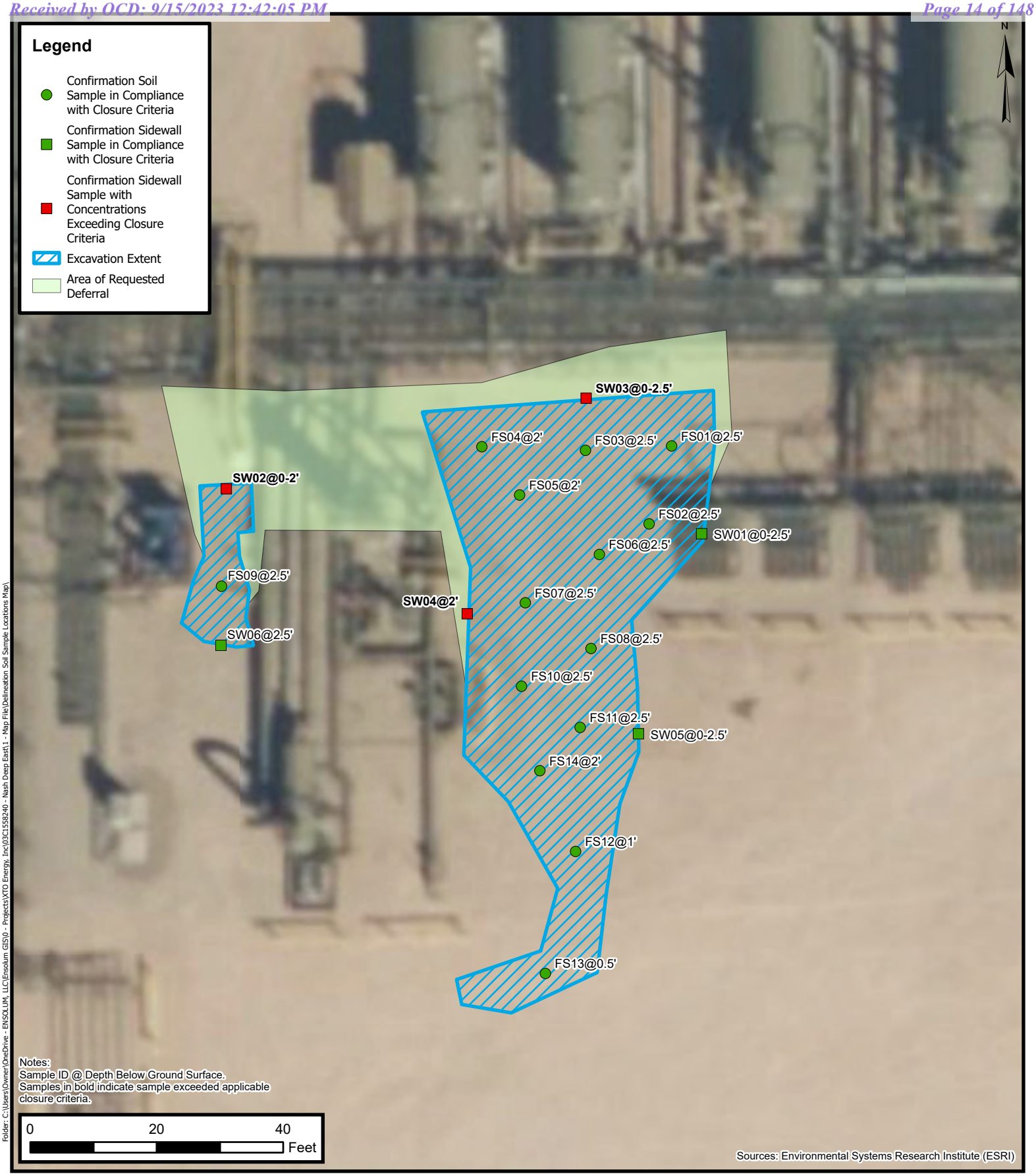
Confirmation Soil Sample Locations

XTO Energy, Inc
Nash Deep East
Incident Number: nAPP2317832586
Unit P, Sec 18, T23S, R30E
Eddy County, NM

FIGURE 3



Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1558240 - Nash Deep East\1 - Map File\Delineation Soil Sample Locations Map\

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Deferral Area Map

XTO Energy, Inc
Nash Deep East
Incident Number: nAPP2317832586
Unit P, Sec 18, T23S, R30E
Eddy County, NM

FIGURE 4

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Nash Deep East Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
~~SS01~~	~~07/07/2023~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~**13,000**~~
~~BH01~~	~~08/23/2023~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~382~~
~~SS02~~	~~07/07/2023~~	~~0.5~~	~~<0.00202~~	~~<0.00404~~	~~<50.5~~	~~<50.5~~	~~<50.5~~	~~<50.5~~	~~<50.5~~	~~**11,900**~~
~~BH02~~	~~08/22/2023~~	~~2~~	~~<0.00200~~	~~<0.00400~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~79.9~~
~~SS03~~	~~07/07/2023~~	~~0.5~~	~~<0.00202~~	~~<0.00403~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**9,390**~~
~~BH03~~	~~08/22/2023~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~246~~
SS04	07/07/2023	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	450
BH04	08/22/2023	2	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	136
SS05	07/07/2023	0.5	<0.00202	<0.00403	<49.5	<49.5	<49.5	<49.5	<49.5	192
BH05	08/22/2023	2	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	86.4
SS06	07/07/2023	0.5	<0.00198	<0.00396	<50.3	<50.3	<50.3	<50.3	<50.3	254
BH06	08/23/2023	2	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	117
SS07	07/07/2023	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	203
BH07	08/23/2023	2	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	126

Notes:

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

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
~~Grey~~ text indicates soil sample removed during excavation activities

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TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
Nash Deep East Battery
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Soil Samples										
FS01	08/23/2023	2.5	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	177
FS02	08/23/2023	2.5	0.00474	0.0237	<50.3	<50.3	<50.3	<50.3	<50.3	195
FS03	08/23/2023	2.5	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	402
FS04	08/23/2023	2	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	250
FS05	08/23/2023	2	0.00260	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	301
FS06	08/23/2023	2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	336
FS07	08/23/2023	2.5	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	192
FS08	08/23/2023	2.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	130
FS09	08/24/2023	2.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	143
FS10	08/24/2023	2.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	227
FS11	08/24/2023	2.5	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	168
FS12	08/24/2023	1	<0.00200	<0.00400	<50.3	<50.3	<50.3	<50.3	<50.3	200
FS13	08/24/2023	0.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	251
FS14	08/24/2023	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	251
SW01	08/22/2023	0 - 2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	135
SW02	08/24/2023	0 - 2	<0.00202	<0.00403	<49.6	<49.6	<49.6	<49.6	<49.6	**3,260**
SW03	08/24/2023	0 - 2.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	**4,280**
SW04	08/24/2023	0 - 2.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	**1,140**
SW05	08/24/2023	0 - 2.5	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	344
SW06	08/24/2023	0 - 2	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	177

Notes:

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

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
~~Grey~~ text indicates soil sample removed during excavation activities

ENSOLUM

APPENDIX A

Referenced Well Records

Received by OCD: 9/15/2023 12:42:05 PM

National Water Information System: Web Interface

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

Agency code = usgs
site_no list =
- 321742103552601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321742103552601 23S.30E.19.123421

Eddy County, New Mexico
Latitude 32°17'42", Longitude 103°55'26" NAD27
Land-surface elevation 3,034 feet above NAVD88
The depth of the well is 100 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status

Released to Imaging: 2/8/2024 8:29:30 AM

Received by OCD: 9/15/2023 12:42:05 PM

1959-02-06	D	62610		2954.29	NGVD29	P	Z			A
1959-02-06	D	62611		2955.90	NAVD88	P	Z			A
1959-02-06	D	72019	78.10			P	Z			A
1959-04-07	D	62610		2963.09	NGVD29	1	Z			A
1959-04-07	D	62611		2964.70	NAVD88	1	Z			A
1959-04-07	D	72019	69.30			1	Z			A
1972-09-20	D	62610		2963.64	NGVD29	1	Z			A
1972-09-20	D	62611		2965.25	NAVD88	1	Z			A
1972-09-20	D	72019	68.75			1	Z			A
1975-12-09	D	62610		2963.40	NGVD29	1	Z			A
1975-12-09	D	62611		2965.01	NAVD88	1	Z			A
1975-12-09	D	72019	68.99			1	Z			A
1976-01-15	D	62610		2962.29	NGVD29	1	Z			A
1976-01-15	D	62611		2963.90	NAVD88	1	Z			A
1976-01-15	D	72019	70.10			1	Z			A
1977-01-19	D	62610		2963.99	NGVD29	1	Z			A
1977-01-19	D	62611		2965.60	NAVD88	1	Z			A
1977-01-19	D	72019	68.40			1	Z			A
1987-10-14	D	62610		2965.07	NGVD29	1	Z			A
1987-10-14	D	62611		2966.68	NAVD88	1	Z			A
1987-10-14	D	72019	67.32			1	Z			A
1993-05-06	D	62610		2966.29	NGVD29	1	S			A
1993-05-06	D	62611		2967.90	NAVD88	1	S			A
1993-05-06	D	72019	66.10			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined

Released to Imaging: 2/8/2024 8:29:30 AM

Received by OCD: 9/15/2023 12:42:05 PM

Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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: 2023-06-23 09:57:33 EDT
0.28 0.25 nadww01

Released to Imaging: 2/8/2024 8:29:30 AM

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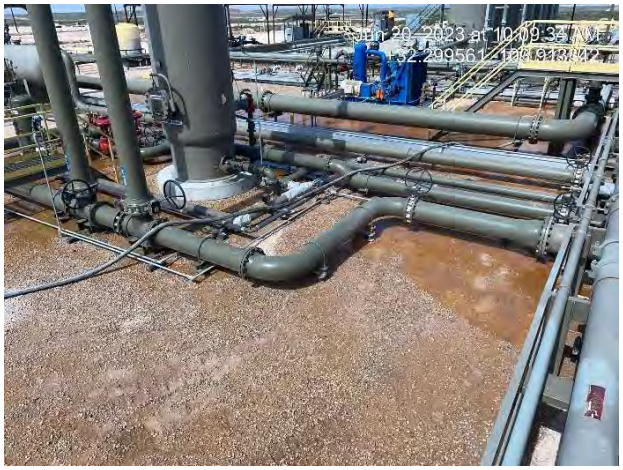
APPENDIX B

Photographic Log

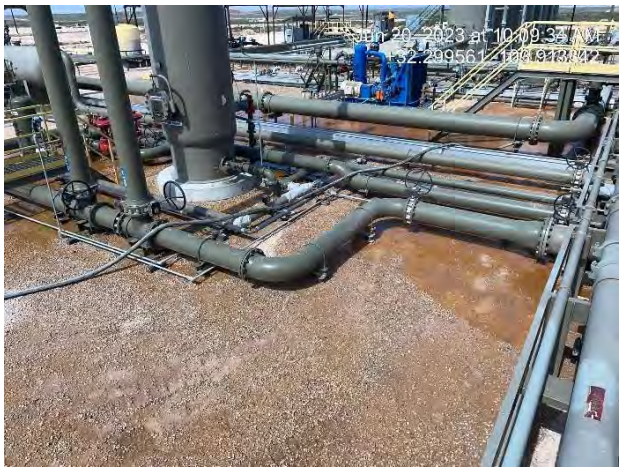
ENSOLUM

Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number NAPP2317832586

Photograph 1 Date: 06/20/2023
Description: Initial Spill Area
View: South



Photograph 2 Date: 06/20/2023
Description: Initial Spill Area
View: Southwest



Photograph 3 Date: 06/20/2023
Description: Initial Spill Area
View: Northeast

Photograph 4 Date: 07/07/2023
Description: Delineation Sampling
View: North

ENSOLUM

Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number NAPP2317832586

Photograph 5 Date: 07/07/2023
Description: Delineation Sampling
View: North

Photograph 6 Date: 07/07/2023
Description: Delineation Sampling
View: West

Photograph 7 Date: 07/07/2023
Description: Delineation sampling
View: Southwest

Photograph 8 Date: 08/22/2023
Description: Excavation Area
View: South

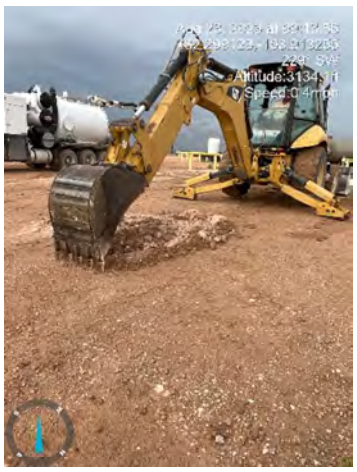
ENSOLUM

Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number NAPP2317832586

Photograph 9 Date: 08/22/2023
Description: Excavation Area
View: Southeast

Photograph 10 Date: 08/23/2023
Description: Potholing Activities
View: Southeast

Photograph 11 Date: 08/23/2023
Description: Excavation Area
View: West



Photograph 12 Date: 08/23/2023
Description: Excavation Area
View: Southwest

ENSOLUM

Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number NAPP2317832586

Photograph 13 Date: 08/23/2023
Description: Potholing Activities
View: South

Photograph 14 Date: 08/23/2023
Description: Excavation Area
View: North

Photograph 15 Date: 08/23/2023
Description: Excavation Area
View: South

Photograph 16 Date: 08/23/2023
Description: Excavation Area
View: West

ENSOLUM

Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number NAPP2317832586

Photograph 17 Date: 08/22/2023
Description: Spill Area
View: West

Photograph 18 Date: 08/23/2023
Description: Excavation Area
View: North

Photograph 19 Date: 08/23/2023
Description: Excavation Area
View: East

Photograph 20 Date: 08/24/2023
Description: Excavation Area
View: North

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

Sample Name: BH01	Date: 08/23/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Hydrovac
Coordinates: 32.2994866, -103.9135029	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-2' Caliche, medium brown, medium grained. Poorly sorted, sub rounded grains. No stain, no odor, moist.
M	2,374.40	0		BH01-1	1	1		
M	375.2	0		BH01-2	2	2	SP-SM	2' Sand with silt, dark brown, medium grained to fine grained, poorly sorted, sub rounded grains, no stain, no odor, moist.

Total Depth @ 2 ft bgs.

ENSOLUM

Sample Name: BH02	Date: 08/22/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Backhoe
Coordinates: 32.2993174, -103.9133148	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
			Y			0	CCHE	0-0.75' Caliche, white to light brown, medium to coarse grained, poorly sorted, sub rounded.
M	<173.6	0	N	BH02-1		1	SP	0.75'-2' Sand with trace silt, medium brown, medium grained, poorly sorted, no stain, no odor.
M	<173.6	0	N	BH02-2	2	2		

Total Depth @ 2 ft bgs.

ENSOLUM

Sample Name: BH03	Date: 08/22/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Backhoe
Coordinates: 32.299499, -103.913305	Hole Diameter: N/A / Total Depth: 4 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-0.75' Caliche, light to medium brown, medium to coarse grained. Poorly sorted, sub-rounded. No stain past surface, no odor, dry.
M	1,943.20	0	N	BH03-1		1	SP	0.75-2' Sand with trace silt, red/brown, medium grained. Poorly sorted, no stain, no odor, moist.
M	453.20	0	N	BH03-2	2	2		2-3' Sand with trace silt, dark brown, medium to fine grained. Poorly sorted, no stain, no odor moist.
D	<173.6	0	N	BH03-2		3		3-4' sand with trace silt, medium brown, medium grained. Poorly sorted, no stain, no odor, dry.
D	<173.6	0	N	BH03-2		4		4' Sand with some caliche gravel, medium brown, poorly sorted, no stain, no odor, dry.

Total Depth @ 4 ft bgs.

ENSOLUM

Sample Name: BH04	Date: 08/22/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Backhoe
Coordinates: 32.299726, -103.913267	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-1'Caliche, medium brown, medium to coarse grained, poorly sorted and sub-rounded grains.
						1	SP	1-2' Sand with trace silt, medium brown, medium fine grained, poorly sorted grains, no staining and no odor.
M	<173.6	0	N	BH04-2	2	2		

Total Depth @ 2 ft bgs.

ENSOLUM

Sample Name: BH05	Date: 08/22/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Backhoe
Coordinates: 32.299267, -103.913332	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	Caliche, white to light brown, coarse grained caliche gravel with some medium grained caliche matrix/sand. No Stain and no odor.
						1		
D	<173.6	0	N	BH05-2	2	2		

Total Depth @ 2 ft bgs.

ENSOLUM

Sample Name: BH06	Date: 08/23/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Backhoe
Coordinates: 32.299451, -103.913194	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	Caliche, medium brown, medium grained.
							SP	0.5'-1' Sand, red/brown, medium grained and poorly sorted.
						1		1-2' Sand, dark/medium brown, medium grained, poorly sorted, no stain, no odor, moist.
M	<151.2	0	N	BH06-2	2	2		

Total Depth @ 2 ft bgs.

ENSOLUM

Sample Name: BH07	Date: 08/23/2023
Site Name: Nash Deep East Battery	
Incident Number: nAPP2317832586	
Job Number: 03C1558254	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR / Method: Hydrovac
Coordinates: 32.299413, -103.913549	Hole Diameter: N/A / Total Depth: 2 ft

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-1' Caliche, medium brown, medium grained.
						1	SP	1-2' Sand, with trace silt, medium to fine grained, some caliche gravel.
M	291.20	0	N	BH07-2	2	2		

Total Depth @ 2 ft bgs.

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 7/28/2023 11:34:54 AM

JOB DESCRIPTION

Nash Deep East Battery
SDG NUMBER 03C1558254

JOB NUMBER

890-4929-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 2/8/2024 8:29:50 AM

my EOL

Eurofins Carlsbad

Job Notes

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

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

Authorization

JKRAMER

Generated
7/28/2023 11:34:54 AM

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

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Definitions/Glossary

Client: Ensolum
Job ID: 890-4929-1
Project/Site: Nash Deep East Battery
SDG: 03C1558254

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: Ensolum
Job ID: 890-4929-1
Project/Site: Nash Deep East Battery
SDG: 03C1558254

Glossary (Continued)

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

Case Narrative

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Job ID: 890-4929-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4929-1

Receipt
The samples were received on 7/12/2023 8:35 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 2.6°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-57700 and analytical batch 880-57653 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57701 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57701/64).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57701 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-57701/82) and (CCV 880-57701/95).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57703 and analytical batch 880-57701 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57701 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57701/113).

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS04 (890-4929-4), SS05 (890-4929-5), SS06 (890-4929-6), SS07 (890-4929-7), (LCS 880-57703/1-A), (LCSD 880-57703/2-A), (MB 880-57655/5-A), (890-4929-A-4-B MS) and (890-4929-A-4-C MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4929-1), SS03 (890-4929-3), (890-4929-A-1-D MS) and (890-4929-A-1-E MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57587 and analytical batch 880-57704 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS01

Lab Sample ID: 890-4929-1
Matrix: Solid

Date Collected: 07/07/23 12:05
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/23 13:20	07/15/23 05:46	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		07/14/23 13:20	07/15/23 05:46	1
Ethylbenzene	<0.00200	U *- *1	0.00200		mg/Kg		07/14/23 13:20	07/15/23 05:46	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399		mg/Kg		07/14/23 13:20	07/15/23 05:46	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		07/14/23 13:20	07/15/23 05:46	1
Xylenes, Total	<0.00399	U *- *1	0.00399		mg/Kg		07/14/23 13:20	07/15/23 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*07/14/23 13:20*	*07/15/23 05:46*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*07/14/23 13:20*	*07/15/23 05:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	50.1		mg/Kg		07/20/23 15:43	07/27/23 11:28	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		07/20/23 15:43	07/27/23 11:28	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/20/23 15:43	07/27/23 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*07/20/23 15:43*	*07/27/23 11:28*	*1*
o-Terphenyl	*119*		*70 - 130*	*07/20/23 15:43*	*07/27/23 11:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13000**		99.0		mg/Kg			07/14/23 23:03	20

Client Sample ID: SS02

Lab Sample ID: 890-4929-2
Matrix: Solid

Date Collected: 07/07/23 12:10
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/23 13:20	07/15/23 06:07	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		07/14/23 13:20	07/15/23 06:07	1
Ethylbenzene	<0.00202	U *- *1	0.00202		mg/Kg		07/14/23 13:20	07/15/23 06:07	1
m-Xylene & p-Xylene	<0.00404	U *- *1	0.00404		mg/Kg		07/14/23 13:20	07/15/23 06:07	1
o-Xylene	<0.00202	U *- *1	0.00202		mg/Kg		07/14/23 13:20	07/15/23 06:07	1
Xylenes, Total	<0.00404	U *- *1	0.00404		mg/Kg		07/14/23 13:20	07/15/23 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*07/14/23 13:20*	*07/15/23 06:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS02

Lab Sample ID: 890-4929-2
Matrix: Solid

Date Collected: 07/07/23 12:10
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78		70 - 130	07/14/23 13:20	07/15/23 06:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 12:34	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 12:34	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	07/20/23 15:43	07/27/23 12:34	1
o-Terphenyl	110		70 - 130	07/20/23 15:43	07/27/23 12:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11900**		100	mg/Kg			07/14/23 23:08	20

Client Sample ID: SS03

Lab Sample ID: 890-4929-3
Matrix: Solid

Date Collected: 07/07/23 12:15
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/23 13:20	07/15/23 06:27	1
Toluene	<0.00202	U *-	0.00202	mg/Kg		07/14/23 13:20	07/15/23 06:27	1
Ethylbenzene	<0.00202	U *- *1	0.00202	mg/Kg		07/14/23 13:20	07/15/23 06:27	1
m-Xylene & p-Xylene	<0.00403	U *- *1	0.00403	mg/Kg		07/14/23 13:20	07/15/23 06:27	1
o-Xylene	<0.00202	U *- *1	0.00202	mg/Kg		07/14/23 13:20	07/15/23 06:27	1
Xylenes, Total	<0.00403	U *- *1	0.00403	mg/Kg		07/14/23 13:20	07/15/23 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/14/23 13:20	07/15/23 06:27	1
1,4-Difluorobenzene (Surr)	76		70 - 130	07/14/23 13:20	07/15/23 06:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/17/23 14:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/28/23 11:50	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS03

Lab Sample ID: 890-4929-3
Matrix: Solid

Date Collected: 07/07/23 12:15
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 12:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*07/20/23 15:43*	*07/27/23 12:56*	*1*
o-Terphenyl	*118*		*70 - 130*	*07/20/23 15:43*	*07/27/23 12:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9390**		99.4	mg/Kg			07/14/23 23:24	20

Client Sample ID: SS04

Lab Sample ID: 890-4929-4
Matrix: Solid

Date Collected: 07/07/23 12:25
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/14/23 14:30	07/16/23 11:10	1
Toluene	<0.00202	U F2 F1	0.00202	mg/Kg		07/14/23 14:30	07/16/23 11:10	1
Ethylbenzene	<0.00202	U F2 F1	0.00202	mg/Kg		07/14/23 14:30	07/16/23 11:10	1
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.00404	mg/Kg		07/14/23 14:30	07/16/23 11:10	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		07/14/23 14:30	07/16/23 11:10	1
Xylenes, Total	<0.00404	U F2 F1	0.00404	mg/Kg		07/14/23 14:30	07/16/23 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*232*	*S1+*	*70 - 130*	*07/14/23 14:30*	*07/16/23 11:10*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/14/23 14:30*	*07/16/23 11:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/17/23 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 13:18	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*07/20/23 15:43*	*07/27/23 13:18*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/20/23 15:43*	*07/27/23 13:18*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS04

Lab Sample ID: 890-4929-4
Matrix: Solid

Date Collected: 07/07/23 12:25
Date Received: 07/12/23 08:35
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		49.5		mg/Kg			07/14/23 23:29	10

Client Sample ID: SS05

Lab Sample ID: 890-4929-5
Matrix: Solid

Date Collected: 07/07/23 12:30
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/23 14:30	07/16/23 11:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/23 14:30	07/16/23 11:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/23 14:30	07/16/23 11:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/23 14:30	07/16/23 11:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/23 14:30	07/16/23 11:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/23 14:30	07/16/23 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*241*	*S1+*	*70 - 130*	*07/14/23 14:30*	*07/16/23 11:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/14/23 14:30*	*07/16/23 11:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			07/17/23 14:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		07/20/23 15:43	07/27/23 13:39	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		07/20/23 15:43	07/27/23 13:39	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		07/20/23 15:43	07/27/23 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*07/20/23 15:43*	*07/27/23 13:39*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/20/23 15:43*	*07/27/23 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		24.8		mg/Kg			07/14/23 23:34	5

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS06

Lab Sample ID: 890-4929-6
Matrix: Solid

Date Collected: 07/07/23 12:35
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:02	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:02	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/14/23 14:30	07/16/23 12:02	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:02	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/14/23 14:30	07/16/23 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*267*	*S1+*	*70 - 130*	*07/14/23 14:30*	*07/16/23 12:02*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*07/14/23 14:30*	*07/16/23 12:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/17/23 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 14:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 14:01	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*07/20/23 15:43*	*07/27/23 14:01*	*1*
o-Terphenyl	*112*		*70 - 130*	*07/20/23 15:43*	*07/27/23 14:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		50.1	mg/Kg			07/14/23 23:39	10

Client Sample ID: SS07

Lab Sample ID: 890-4929-7
Matrix: Solid

Date Collected: 07/07/23 12:40
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:28	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/14/23 14:30	07/16/23 12:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 12:28	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/14/23 14:30	07/16/23 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*260*	*S1+*	*70 - 130*	*07/14/23 14:30*	*07/16/23 12:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS07

Lab Sample ID: 890-4929-7
Matrix: Solid

Date Collected: 07/07/23 12:40
Date Received: 07/12/23 08:35
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/14/23 14:30*	*07/16/23 12:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/17/23 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*07/20/23 15:43*	*07/27/23 14:23*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/20/23 15:43*	*07/27/23 14:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		25.3	mg/Kg			07/14/23 23:44	5

Surrogate Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)								
880-30750-A-1-A MS	Matrix Spike	115	101								
880-30750-A-1-B MSD	Matrix Spike Duplicate	123	105								
890-4929-1	SS01	100	70								
890-4929-2	SS02	95	78								
890-4929-3	SS03	90	76								
890-4929-4	SS04	232 S1+	85								
890-4929-4 MS	SS04	272 S1+	76								
890-4929-4 MSD	SS04	218 S1+	70								
890-4929-5	SS05	241 S1+	98								
890-4929-6	SS06	267 S1+	107								
890-4929-7	SS07	260 S1+	89								
LCS 880-57700/1-A	Lab Control Sample	112	101								
LCS 880-57703/1-A	Lab Control Sample	213 S1+	85								
LCSD 880-57700/2-A	Lab Control Sample Dup	45 S1-	94								
LCSD 880-57703/2-A	Lab Control Sample Dup	223 S1+	63 S1-								
MB 880-57655/5-A	Method Blank	115	60 S1-								
MB 880-57673/5-A	Method Blank	75	87								
MB 880-57700/5-A	Method Blank	77	87								
MB 880-57703/5-A	Method Blank	122	81								

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)								
890-4929-1	SS01	135 S1+	119								
890-4929-1 MS	SS01	147 S1+	119								
890-4929-1 MSD	SS01	144 S1+	112								
890-4929-2	SS02	126	110								
890-4929-3	SS03	134 S1+	118								
890-4929-4	SS04	116	100								
890-4929-5	SS05	121	103								
890-4929-6	SS06	129	112								
890-4929-7	SS07	122	105								
LCS 880-58169/2-A	Lab Control Sample	112	105								
LCSD 880-58169/3-A	Lab Control Sample Dup	102	92								
MB 880-58169/1-A	Method Blank	162 S1+	150 S1+								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57655/5-A
Matrix: Solid
Analysis Batch: 57701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57655

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 08:26	07/15/23 21:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 08:26	07/15/23 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/14/23 08:26*	*07/15/23 21:24*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*07/14/23 08:26*	*07/15/23 21:24*	*1*

Lab Sample ID: MB 880-57673/5-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57673

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 09:48	07/14/23 12:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 09:48	07/14/23 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 09:48	07/14/23 12:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 09:48	07/14/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*07/14/23 09:48*	*07/14/23 12:21*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/23 09:48*	*07/14/23 12:21*	*1*

Lab Sample ID: MB 880-57700/5-A
Matrix: Solid
Analysis Batch: 57653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57700

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 13:20	07/14/23 22:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*07/14/23 13:20*	*07/14/23 22:57*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/14/23 13:20*	*07/14/23 22:57*	*1*

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Lab Sample ID: LCS 880-57700/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57653 — **Prep Batch: 57700**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08927		mg/Kg		89	70 - 130
Toluene	0.100	0.08178		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09752		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09910		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-57700/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57653 — **Prep Batch: 57700**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09471		mg/Kg		95	70 - 130	6	35
Toluene	0.100	0.06910	*-	mg/Kg		69	70 - 130	17	35
Ethylbenzene	0.100	0.06412	*- *1	mg/Kg		64	70 - 130	41	35
m-Xylene & p-Xylene	0.200	0.1135	*- *1	mg/Kg		57	70 - 130	56	35
o-Xylene	0.100	0.05133	*- *1	mg/Kg		51	70 - 130	64	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*45*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-30750-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57653 — **Prep Batch: 57700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0994	0.09147		mg/Kg		92	70 - 130
Toluene	<0.00202	U *-	0.0994	0.08699		mg/Kg		88	70 - 130
Ethylbenzene	<0.00202	U *- *1	0.0994	0.1053		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00403	U *- *1	0.199	0.2134		mg/Kg		107	70 - 130
o-Xylene	<0.00202	U *- *1	0.0994	0.1053		mg/Kg		106	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-30750-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57653 — **Prep Batch: 57700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1043		mg/Kg		104	70 - 130	13	35
Toluene	<0.00202	U *-	0.100	0.09781		mg/Kg		98	70 - 130	12	35
Ethylbenzene	<0.00202	U *- *1	0.100	0.1189		mg/Kg		119	70 - 130	12	35

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Lab Sample ID: 880-30750-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57653 — **Prep Batch: 57700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00403	U *- *1	0.200	0.2414		mg/Kg		121	70 - 130	12	35
o-Xylene	<0.00202	U *- *1	0.100	0.1179		mg/Kg		118	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-57703/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57701 — **Prep Batch: 57703**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 10:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 10:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 10:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 14:30	07/16/23 10:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 10:45	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 14:30	07/16/23 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/14/23 14:30*	*07/16/23 10:45*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/14/23 14:30*	*07/16/23 10:45*	*1*

Lab Sample ID: LCS 880-57703/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57701 — **Prep Batch: 57703**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1186		mg/Kg		119	70 - 130
Toluene	0.100	0.1144		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2109		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1174		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*213*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: LCSD 880-57703/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57701 — **Prep Batch: 57703**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1148		mg/Kg		115	70 - 130	3	35
Toluene	0.100	0.1217		mg/Kg		122	70 - 130	6	35
Ethylbenzene	0.100	0.1291		mg/Kg		129	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.2349		mg/Kg		117	70 - 130	11	35
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130	4	35

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	223	S1+	70 - 130
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130

Lab Sample ID: 890-4929-4 MS — **Client Sample ID: SS04**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57701 — **Prep Batch: 57703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0994	0.1077		mg/Kg		108	70 - 130
Toluene	<0.00202	U F2 F1	0.0994	0.07130		mg/Kg		72	70 - 130
Ethylbenzene	<0.00202	U F2 F1	0.0994	0.04676	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.199	0.08711	F1	mg/Kg		44	70 - 130
o-Xylene	<0.00202	U F1	0.0994	0.06021	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	272	S1+	70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: 890-4929-4 MSD — **Client Sample ID: SS04**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 57701 — **Prep Batch: 57703**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.07531		mg/Kg		75	70 - 130	35	35
Toluene	<0.00202	U F2 F1	0.0998	0.04510	F2 F1	mg/Kg		45	70 - 130	45	35
Ethylbenzene	<0.00202	U F2 F1	0.0998	0.03174	F2 F1	mg/Kg		32	70 - 130	38	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.05493	F2 F1	mg/Kg		28	70 - 130	45	35
o-Xylene	<0.00202	U F1	0.0998	0.04349	F1	mg/Kg		44	70 - 130	32	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	218	S1+	70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

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

Lab Sample ID: MB 880-58169/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58603 — **Prep Batch: 58169**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	07/20/23 15:43	07/27/23 08:53	1
o-Terphenyl	150	S1+	70 - 130	07/20/23 15:43	07/27/23 08:53	1

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Lab Sample ID: LCS 880-58169/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58603 — **Prep Batch: 58169**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1008		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1021		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-58169/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58603 — **Prep Batch: 58169**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	957.9		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	964.6		mg/Kg		96	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-4929-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58603 — **Prep Batch: 58169**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	996	1476	F1	mg/Kg		147	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1447	F1	mg/Kg		143	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*147*	*S1+*	*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-4929-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 58603 — **Prep Batch: 58169**

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	<50.1	U F1	996	1442	F1	mg/Kg		143	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1395	F1	mg/Kg		138	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*144*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Lab Sample ID: 890-4929-1 MSD
Matrix: Solid
Analysis Batch: 58603

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 58169

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	112		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57587/1-A
Matrix: Solid
Analysis Batch: 57704

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/14/23 21:20	1

Lab Sample ID: LCS 880-57587/2-A
Matrix: Solid
Analysis Batch: 57704

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 880-57587/3-A
Matrix: Solid
Analysis Batch: 57704

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	253.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-4927-A-7-B MS
Matrix: Solid
Analysis Batch: 57704

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	476	F1	1250	1875	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 890-4927-A-7-C MSD
Matrix: Solid
Analysis Batch: 57704

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	476	F1	1250	1872	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

GC VOA

Analysis Batch: 57653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	8021B	57700
890-4929-2	SS02	Total/NA	Solid	8021B	57700
890-4929-3	SS03	Total/NA	Solid	8021B	57700
MB 880-57673/5-A	Method Blank	Total/NA	Solid	8021B	57673
MB 880-57700/5-A	Method Blank	Total/NA	Solid	8021B	57700
LCS 880-57700/1-A	Lab Control Sample	Total/NA	Solid	8021B	57700
LCSD 880-57700/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57700
880-30750-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	57700
880-30750-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57700

Prep Batch: 57655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57655/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57673/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	5035	
890-4929-2	SS02	Total/NA	Solid	5035	
890-4929-3	SS03	Total/NA	Solid	5035	
MB 880-57700/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57700/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57700/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30750-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-30750-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-4	SS04	Total/NA	Solid	8021B	57703
890-4929-5	SS05	Total/NA	Solid	8021B	57703
890-4929-6	SS06	Total/NA	Solid	8021B	57703
890-4929-7	SS07	Total/NA	Solid	8021B	57703
MB 880-57655/5-A	Method Blank	Total/NA	Solid	8021B	57655
MB 880-57703/5-A	Method Blank	Total/NA	Solid	8021B	57703
LCS 880-57703/1-A	Lab Control Sample	Total/NA	Solid	8021B	57703
LCSD 880-57703/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57703
890-4929-4 MS	SS04	Total/NA	Solid	8021B	57703
890-4929-4 MSD	SS04	Total/NA	Solid	8021B	57703

Prep Batch: 57703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-4	SS04	Total/NA	Solid	5035	
890-4929-5	SS05	Total/NA	Solid	5035	
890-4929-6	SS06	Total/NA	Solid	5035	
890-4929-7	SS07	Total/NA	Solid	5035	
MB 880-57703/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57703/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57703/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

GC VOA (Continued)

Prep Batch: 57703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-4 MS	SS04	Total/NA	Solid	5035	
890-4929-4 MSD	SS04	Total/NA	Solid	5035	

Analysis Batch: 57861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	Total BTEX	
890-4929-2	SS02	Total/NA	Solid	Total BTEX	
890-4929-3	SS03	Total/NA	Solid	Total BTEX	
890-4929-4	SS04	Total/NA	Solid	Total BTEX	
890-4929-5	SS05	Total/NA	Solid	Total BTEX	
890-4929-6	SS06	Total/NA	Solid	Total BTEX	
890-4929-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	8015NM Prep	
890-4929-2	SS02	Total/NA	Solid	8015NM Prep	
890-4929-3	SS03	Total/NA	Solid	8015NM Prep	
890-4929-4	SS04	Total/NA	Solid	8015NM Prep	
890-4929-5	SS05	Total/NA	Solid	8015NM Prep	
890-4929-6	SS06	Total/NA	Solid	8015NM Prep	
890-4929-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-58169/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58169/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58169/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4929-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-4929-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	8015B NM	58169
890-4929-2	SS02	Total/NA	Solid	8015B NM	58169
890-4929-3	SS03	Total/NA	Solid	8015B NM	58169
890-4929-4	SS04	Total/NA	Solid	8015B NM	58169
890-4929-5	SS05	Total/NA	Solid	8015B NM	58169
890-4929-6	SS06	Total/NA	Solid	8015B NM	58169
890-4929-7	SS07	Total/NA	Solid	8015B NM	58169
MB 880-58169/1-A	Method Blank	Total/NA	Solid	8015B NM	58169
LCS 880-58169/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58169
LCSD 880-58169/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58169
890-4929-1 MS	SS01	Total/NA	Solid	8015B NM	58169
890-4929-1 MSD	SS01	Total/NA	Solid	8015B NM	58169

Analysis Batch: 58718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Total/NA	Solid	8015 NM	
890-4929-2	SS02	Total/NA	Solid	8015 NM	
890-4929-3	SS03	Total/NA	Solid	8015 NM	
890-4929-4	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

GC Semi VOA (Continued)

Analysis Batch: 58718 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-5	SS05	Total/NA	Solid	8015 NM	
890-4929-6	SS06	Total/NA	Solid	8015 NM	
890-4929-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Soluble	Solid	DI Leach	
890-4929-2	SS02	Soluble	Solid	DI Leach	
890-4929-3	SS03	Soluble	Solid	DI Leach	
890-4929-4	SS04	Soluble	Solid	DI Leach	
890-4929-5	SS05	Soluble	Solid	DI Leach	
890-4929-6	SS06	Soluble	Solid	DI Leach	
890-4929-7	SS07	Soluble	Solid	DI Leach	
MB 880-57587/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57587/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57587/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4927-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4927-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 57704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4929-1	SS01	Soluble	Solid	300.0	57587
890-4929-2	SS02	Soluble	Solid	300.0	57587
890-4929-3	SS03	Soluble	Solid	300.0	57587
890-4929-4	SS04	Soluble	Solid	300.0	57587
890-4929-5	SS05	Soluble	Solid	300.0	57587
890-4929-6	SS06	Soluble	Solid	300.0	57587
890-4929-7	SS07	Soluble	Solid	300.0	57587
MB 880-57587/1-A	Method Blank	Soluble	Solid	300.0	57587
LCS 880-57587/2-A	Lab Control Sample	Soluble	Solid	300.0	57587
LCSD 880-57587/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57587
890-4927-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	57587
890-4927-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	57587

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS01
Date Collected: 07/07/23 12:05
Date Received: 07/12/23 08:35

Lab Sample ID: 890-4929-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57700	07/14/23 13:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 05:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 11:28	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 23:03	CH	EET MID

Client Sample ID: SS02
Date Collected: 07/07/23 12:10
Date Received: 07/12/23 08:35

Lab Sample ID: 890-4929-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57700	07/14/23 13:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 06:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 12:34	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 23:08	CH	EET MID

Client Sample ID: SS03
Date Collected: 07/07/23 12:15
Date Received: 07/12/23 08:35

Lab Sample ID: 890-4929-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57700	07/14/23 13:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57653	07/15/23 06:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 12:56	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		20			57704	07/14/23 23:24	CH	EET MID

Client Sample ID: SS04
Date Collected: 07/07/23 12:25
Date Received: 07/12/23 08:35

Lab Sample ID: 890-4929-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 11:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:47	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS04
Lab Sample ID: 890-4929-4
Date Collected: 07/07/23 12:25
Matrix: Solid
Date Received: 07/12/23 08:35

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			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 13:18	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		10			57704	07/14/23 23:29	CH	EET MID

Client Sample ID: SS05
Lab Sample ID: 890-4929-5
Date Collected: 07/07/23 12:30
Matrix: Solid
Date Received: 07/12/23 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 11:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 13:39	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		5			57704	07/14/23 23:34	CH	EET MID

Client Sample ID: SS06
Lab Sample ID: 890-4929-6
Date Collected: 07/07/23 12:35
Matrix: Solid
Date Received: 07/12/23 08:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 12:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 14:01	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		10			57704	07/14/23 23:39	CH	EET MID

Client Sample ID: SS07
Lab Sample ID: 890-4929-7
Date Collected: 07/07/23 12:40
Matrix: Solid
Date Received: 07/12/23 08:35

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	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 12:28	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57861	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58718	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 14:23	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Client Sample ID: SS07

Date Collected: 07/07/23 12:40
Date Received: 07/12/23 08:35

Lab Sample ID: 890-4929-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	57587	07/13/23 10:49	KS	EET MID
Soluble	Analysis	300.0		5			57704	07/14/23 23:44	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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	T104704400-23-26	06-30-24

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: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-4929-1
SDG: 03C1558254

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4929-1	SS01	Solid	07/07/23 12:05	07/12/23 08:35	0.5
890-4929-2	SS02	Solid	07/07/23 12:10	07/12/23 08:35	0.5
890-4929-3	SS03	Solid	07/07/23 12:15	07/12/23 08:35	0.5
890-4929-4	SS04	Solid	07/07/23 12:25	07/12/23 08:35	0.5
890-4929-5	SS05	Solid	07/07/23 12:30	07/12/23 08:35	0.5
890-4929-6	SS06	Solid	07/07/23 12:35	07/12/23 08:35	0.5
890-4929-7	SS07	Solid	07/07/23 12:40	07/12/23 08:35	0.5

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	Nash Deep East Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558254	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	Thm007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8
Total Containers:		Corrected Temperature:	2.6

ANALYSIS REQUEST

Pres. Code

Parameters: CHLORIDES (EPA: 3000.0), TPH (8015), BTEX (8021)

890-4929 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
SS01	S	7/7/23	1205	.5	G	1			
SS02			1210			1			
SS03			1215			1			
SS04			1225			1			
SS05			1230			1			
SS06			1235			1			
SS07			1240			1			

CW

Preservative Codes

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

Sample Comments

Incident ID: nAPP2317832586
Cost Center: 1056641001
AFE:

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

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]	7.12.23 835	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 9/15/2023 12:42:05 PM

Released to Imaging: 2/8/2024 8:29:30 AM

7/28/2023

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Chain of Custody

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

www.xenco.com

Work Order No: _____

Page 1 of 1

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

Work Order Comments

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

Project Name:	Remuda 500 Tank Battery	Turn Around	
Project Number:	03C1558255	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM507
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.8
Total Containers:		Corrected Temperature:	2.6

Preservative Codes

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

890-4927 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
SS01	S	7/7/23	950	.5	G	1			
SS02			955			1			
SS03			1000			1			
SS04			1015			1			
SS05			1020			1			
SS06			1025			1			
SS07			1030			1			

GW

Sample Comments

Incident ID: nAPP2317850727
Cost Center: 1067601001
AFE:

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

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		7-12-23 835			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 9/15/2023 12:42:05 PM

Released to Imaging: 2/8/2024 8:29:30 AM

7/28/2023

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4929-1
SDG Number: 03C1558254

Login Number: 4929
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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4929-1
SDG Number: 03C1558254

Login Number: 4929
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 07/13/23 11:48 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 9/1/2023 11:43:51 AM

JOB DESCRIPTION

Nash Deep East Battery
SDG NUMBER 03C1558254

JOB NUMBER

890-5156-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 2/8/2024 8:29:50 AM

my EOL

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated
9/1/2023 11:43:51 AM

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

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Definitions/Glossary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Job ID: 890-5156-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5156-1

Receipt
The samples were received on 8/25/2023 8:15 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 2.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-5156-1), BH02 (890-5156-2), BH03 (890-5156-3), BH04 (890-5156-4), BH05 (890-5156-5), BH06 (890-5156-6) and BH07 (890-5156-7).

GC VOA
Method 8021B: CCV was biased low for all analytes. Another CCV was analyzed within the method derived 12 hour window; therefore, the data was qualified and reported. (CCV 880-61518/33)

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: (CCV 880-61415/31), (CCV 880-61415/47) and (LCSD 880-61372/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61372 and analytical batch 880-61415 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH01 (890-5156-1), BH02 (890-5156-2), BH03 (890-5156-3), BH04 (890-5156-4), BH05 (890-5156-5), BH06 (890-5156-6), BH07 (890-5156-7), (890-5156-A-1-B MS) and (890-5156-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-61372 and analytical batch 880-61415 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-61435 and analytical batch 880-61539 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH01

Lab Sample ID: 890-5156-1
Matrix: Solid

Date Collected: 08/23/23 09:50
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 18:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 18:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 18:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/30/23 12:30	08/30/23 18:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 18:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/30/23 12:30	08/30/23 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/30/23 12:30*	*08/30/23 18:49*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/30/23 12:30*	*08/30/23 18:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/31/23 10:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8	mg/Kg		08/28/23 18:34	08/29/23 20:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8	mg/Kg		08/28/23 18:34	08/29/23 20:24	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/28/23 18:34	08/29/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 20:24*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/28/23 18:34*	*08/29/23 20:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**382**	**F1**	4.95	mg/Kg			08/30/23 18:25	1

Client Sample ID: BH02

Lab Sample ID: 890-5156-2
Matrix: Solid

Date Collected: 08/22/23 12:15
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 19:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 19:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 19:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/30/23 12:30	08/30/23 19:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 19:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/30/23 12:30	08/30/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/30/23 12:30*	*08/30/23 19:09*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH02

Lab Sample ID: 890-5156-2
Matrix: Solid

Date Collected: 08/22/23 12:15
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	08/30/23 12:30	08/30/23 19:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			08/31/23 10:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/28/23 18:34	08/29/23 21:28	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/28/23 18:34	08/29/23 21:28	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/28/23 18:34	08/29/23 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	08/28/23 18:34	08/29/23 21:28	1
o-Terphenyl	145	S1+	70 - 130	08/28/23 18:34	08/29/23 21:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.9**		4.99	mg/Kg			08/30/23 18:45	1

Client Sample ID: BH03

Lab Sample ID: 890-5156-3
Matrix: Solid

Date Collected: 08/22/23 10:00
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 19:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 19:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 19:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/30/23 12:30	08/30/23 19:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/30/23 12:30	08/30/23 19:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/30/23 12:30	08/30/23 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/30/23 12:30	08/30/23 19:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/30/23 12:30	08/30/23 19:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/31/23 10:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/30/23 11:45	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH03

Lab Sample ID: 890-5156-3
Matrix: Solid

Date Collected: 08/22/23 10:00
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/28/23 18:34	08/29/23 21:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/28/23 18:34	08/29/23 21:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/28/23 18:34	08/29/23 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 21:49*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 21:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**246**		4.97	mg/Kg			08/30/23 18:51	1

Client Sample ID: BH04

Lab Sample ID: 890-5156-4
Matrix: Solid

Date Collected: 08/22/23 12:55
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/31/23 10:15	08/31/23 19:24	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/31/23 10:15	08/31/23 19:24	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/31/23 10:15	08/31/23 19:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/31/23 10:15	08/31/23 19:24	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/31/23 10:15	08/31/23 19:24	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/31/23 10:15	08/31/23 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*08/31/23 10:15*	*08/31/23 19:24*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*08/31/23 10:15*	*08/31/23 19:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/01/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/28/23 18:34	08/29/23 22:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/28/23 18:34	08/29/23 22:11	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/28/23 18:34	08/29/23 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:11*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH04

Lab Sample ID: 890-5156-4
Matrix: Solid

Date Collected: 08/22/23 12:55
Date Received: 08/25/23 08:15
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.96		mg/Kg			08/30/23 18:58	1

Client Sample ID: BH05

Lab Sample ID: 890-5156-5
Matrix: Solid

Date Collected: 08/22/23 12:35
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/31/23 10:15	08/31/23 19:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/31/23 10:15	08/31/23 19:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/31/23 10:15	08/31/23 19:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/31/23 10:15	08/31/23 19:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/31/23 10:15	08/31/23 19:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/31/23 10:15	08/31/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*08/31/23 10:15*	*08/31/23 19:44*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/31/23 10:15*	*08/31/23 19:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/23 10:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/28/23 18:34	08/29/23 22:32	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/28/23 18:34	08/29/23 22:32	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/28/23 18:34	08/29/23 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:32*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		5.03		mg/Kg			08/30/23 19:05	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH06

Lab Sample ID: 890-5156-6
Matrix: Solid

Date Collected: 08/23/23 09:20
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/31/23 10:15	08/31/23 20:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/31/23 10:15	08/31/23 20:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/31/23 10:15	08/31/23 20:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/31/23 10:15	08/31/23 20:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/31/23 10:15	08/31/23 20:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/31/23 10:15	08/31/23 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/31/23 10:15*	*08/31/23 20:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/31/23 10:15*	*08/31/23 20:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/01/23 10:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/28/23 18:34	08/29/23 22:54	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/28/23 18:34	08/29/23 22:54	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/28/23 18:34	08/29/23 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:54*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		5.04	mg/Kg			08/30/23 19:25	1

Client Sample ID: BH07

Lab Sample ID: 890-5156-7
Matrix: Solid

Date Collected: 08/23/23 10:15
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 20:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 20:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 20:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/30/23 12:30	08/30/23 20:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 20:52	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/30/23 12:30	08/30/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*08/30/23 12:30*	*08/30/23 20:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH07

Lab Sample ID: 890-5156-7
Matrix: Solid

Date Collected: 08/23/23 10:15
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*08/30/23 12:30*	*08/30/23 20:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			08/31/23 10:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/28/23 18:34	08/29/23 23:15	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/28/23 18:34	08/29/23 23:15	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/28/23 18:34	08/29/23 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*150*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 23:15*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/28/23 18:34*	*08/29/23 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		4.99	mg/Kg			08/30/23 19:31	1

Surrogate Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-32484-A-1-E MS	Matrix Spike	92	89
880-32484-A-1-F MSD	Matrix Spike Duplicate	93	91
880-32709-A-8-D MS	Matrix Spike	88	89
880-32709-A-8-E MSD	Matrix Spike Duplicate	85	94
890-5156-1	BH01	78	88
890-5156-2	BH02	87	98
890-5156-3	BH03	87	96
890-5156-4	BH04	71	90
890-5156-5	BH05	83	97
890-5156-6	BH06	88	99
890-5156-7	BH07	79	97
LCS 880-61571/1-A	Lab Control Sample	93	91
LCS 880-61615/1-A	Lab Control Sample	94	82
LCSD 880-61571/2-A	Lab Control Sample Dup	86	95
LCSD 880-61615/2-A	Lab Control Sample Dup	110	88
MB 880-61571/5-A	Method Blank	99	118
MB 880-61615/5-A	Method Blank	103	122

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)
890-5156-1	BH01	137 S1+	127
890-5156-1 MS	BH01	156 S1+	132 S1+
890-5156-1 MSD	BH01	149 S1+	125
890-5156-2	BH02	150 S1+	145 S1+
890-5156-3	BH03	144 S1+	137 S1+
890-5156-4	BH04	152 S1+	148 S1+
890-5156-5	BH05	141 S1+	136 S1+
890-5156-6	BH06	155 S1+	139 S1+
890-5156-7	BH07	150 S1+	145 S1+
LCS 880-61372/2-A	Lab Control Sample	118	124
LCSD 880-61372/3-A	Lab Control Sample Dup	147 S1+	155 S1+
MB 880-61372/1-A	Method Blank	135 S1+	132 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61571/5-A
Matrix: Solid
Analysis Batch: 61518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61571

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 13:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 13:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 13:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/30/23 12:30	08/30/23 13:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/30/23 12:30	08/30/23 13:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/30/23 12:30	08/30/23 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*08/30/23 12:30*	*08/30/23 13:08*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/30/23 12:30*	*08/30/23 13:08*	*1*

Lab Sample ID: LCS 880-61571/1-A
Matrix: Solid
Analysis Batch: 61518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09388		mg/Kg		94	70 - 130
Toluene	0.100	0.09604		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09676		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1827		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08344		mg/Kg		83	70 - 130

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

Lab Sample ID: LCSD 880-61571/2-A
Matrix: Solid
Analysis Batch: 61518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61571

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1075		mg/Kg		107	70 - 130	13	35
Toluene	0.100	0.09632		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09453		mg/Kg		95	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1742		mg/Kg		87	70 - 130	5	35
o-Xylene	0.100	0.07952		mg/Kg		80	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 880-32484-A-1-E MS
Matrix: Solid
Analysis Batch: 61518

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 61571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08537		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.08926		mg/Kg		89	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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

Lab Sample ID: 880-32484-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61518 — **Prep Batch: 61571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.08681		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1648		mg/Kg		83	70 - 130
o-Xylene	<0.00199	U	0.0996	0.07096		mg/Kg		71	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-32484-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61518 — **Prep Batch: 61571**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08700		mg/Kg		87	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.08568		mg/Kg		85	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.08100		mg/Kg		81	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1660		mg/Kg		83	70 - 130	1	35
o-Xylene	<0.00199	U	0.100	0.07694		mg/Kg		77	70 - 130	8	35

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

Lab Sample ID: MB 880-61615/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/31/23 10:15	08/31/23 14:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/31/23 10:15	08/31/23 14:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/31/23 10:15	08/31/23 14:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/31/23 10:15	08/31/23 14:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/31/23 10:15	08/31/23 14:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/31/23 10:15	08/31/23 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/31/23 10:15*	*08/31/23 14:00*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*08/31/23 10:15*	*08/31/23 14:00*	*1*

Lab Sample ID: LCS 880-61615/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09376		mg/Kg		94	70 - 130
Toluene	0.100	0.1001		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09456		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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

Lab Sample ID: LCS 880-61615/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08770		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: LCSD 880-61615/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1038		mg/Kg		104	70 - 130	10	35
Toluene	0.100	0.1025		mg/Kg		103	70 - 130	2	35
Ethylbenzene	0.100	0.1033		mg/Kg		103	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130	13	35
o-Xylene	0.100	0.09841		mg/Kg		98	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-32709-A-8-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0996	0.1161		mg/Kg		117	70 - 130
Toluene	<0.00198	U	0.0996	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	<0.00198	U	0.0996	0.09507		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1813		mg/Kg		91	70 - 130
o-Xylene	<0.00198	U	0.0996	0.09230		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-32709-A-8-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61634 — **Prep Batch: 61615**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.101	0.1039		mg/Kg		103	70 - 130	11	35
Toluene	<0.00198	U	0.101	0.09527		mg/Kg		94	70 - 130	13	35
Ethylbenzene	<0.00198	U	0.101	0.09050		mg/Kg		90	70 - 130	5	35
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1824		mg/Kg		90	70 - 130	1	35
o-Xylene	<0.00198	U	0.101	0.08307		mg/Kg		82	70 - 130	11	35

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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

Lab Sample ID: 880-32709-A-8-E MSD
Matrix: Solid
Analysis Batch: 61634

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 61615

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-61372/1-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61372

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/28/23 18:34	08/29/23 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/28/23 18:34	08/29/23 19:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/28/23 18:34	08/29/23 19:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/28/23 18:34	08/29/23 19:20	1
o-Terphenyl	132	S1+	70 - 130	08/28/23 18:34	08/29/23 19:20	1

Lab Sample ID: LCS 880-61372/2-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1006		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1060		mg/Kg		106	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: LCSD 880-61372/3-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1145		mg/Kg		115	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1227		mg/Kg		123	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	155	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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

Lab Sample ID: 890-5156-1 MS — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61415 — **Prep Batch: 61372**

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 F1	1010	1722	F1	mg/Kg		167	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1459	F1	mg/Kg		142	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*156*	*S1+*	*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: 890-5156-1 MSD — **Client Sample ID: BH01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 61415 — **Prep Batch: 61372**

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 F1	1010	1513	F1	mg/Kg		146	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	1412	F1	mg/Kg		138	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*149*	*S1+*	*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61435/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/23 18:05	1

Lab Sample ID: LCS 880-61435/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-61435/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.1		mg/Kg		101	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5156-1 MS
Matrix: Solid
Analysis Batch: 61539

Client Sample ID: BH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	382	F1	248	673.2	F1	mg/Kg		118	90 - 110		

Lab Sample ID: 890-5156-1 MSD
Matrix: Solid
Analysis Batch: 61539

Client Sample ID: BH01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	382	F1	248	672.9	F1	mg/Kg		118	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

GC VOA

Analysis Batch: 61518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	8021B	61571
890-5156-2	BH02	Total/NA	Solid	8021B	61571
890-5156-3	BH03	Total/NA	Solid	8021B	61571
890-5156-7	BH07	Total/NA	Solid	8021B	61571
MB 880-61571/5-A	Method Blank	Total/NA	Solid	8021B	61571
LCS 880-61571/1-A	Lab Control Sample	Total/NA	Solid	8021B	61571
LCSD 880-61571/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61571
880-32484-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	61571
880-32484-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61571

Prep Batch: 61571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	5035	
890-5156-2	BH02	Total/NA	Solid	5035	
890-5156-3	BH03	Total/NA	Solid	5035	
890-5156-7	BH07	Total/NA	Solid	5035	
MB 880-61571/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61571/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61571/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32484-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-32484-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 61615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-4	BH04	Total/NA	Solid	5035	
890-5156-5	BH05	Total/NA	Solid	5035	
890-5156-6	BH06	Total/NA	Solid	5035	
MB 880-61615/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61615/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61615/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32709-A-8-D MS	Matrix Spike	Total/NA	Solid	5035	
880-32709-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	Total BTEX	
890-5156-2	BH02	Total/NA	Solid	Total BTEX	
890-5156-3	BH03	Total/NA	Solid	Total BTEX	
890-5156-4	BH04	Total/NA	Solid	Total BTEX	
890-5156-5	BH05	Total/NA	Solid	Total BTEX	
890-5156-6	BH06	Total/NA	Solid	Total BTEX	
890-5156-7	BH07	Total/NA	Solid	Total BTEX	

Analysis Batch: 61634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-4	BH04	Total/NA	Solid	8021B	61615
890-5156-5	BH05	Total/NA	Solid	8021B	61615
890-5156-6	BH06	Total/NA	Solid	8021B	61615
MB 880-61615/5-A	Method Blank	Total/NA	Solid	8021B	61615
LCS 880-61615/1-A	Lab Control Sample	Total/NA	Solid	8021B	61615
LCSD 880-61615/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61615

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

GC VOA (Continued)

Analysis Batch: 61634 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32709-A-8-D MS	Matrix Spike	Total/NA	Solid	8021B	61615
880-32709-A-8-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61615

GC Semi VOA

Prep Batch: 61372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	8015NM Prep	
890-5156-2	BH02	Total/NA	Solid	8015NM Prep	
890-5156-3	BH03	Total/NA	Solid	8015NM Prep	
890-5156-4	BH04	Total/NA	Solid	8015NM Prep	
890-5156-5	BH05	Total/NA	Solid	8015NM Prep	
890-5156-6	BH06	Total/NA	Solid	8015NM Prep	
890-5156-7	BH07	Total/NA	Solid	8015NM Prep	
MB 880-61372/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61372/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61372/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5156-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-5156-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	8015B NM	61372
890-5156-2	BH02	Total/NA	Solid	8015B NM	61372
890-5156-3	BH03	Total/NA	Solid	8015B NM	61372
890-5156-4	BH04	Total/NA	Solid	8015B NM	61372
890-5156-5	BH05	Total/NA	Solid	8015B NM	61372
890-5156-6	BH06	Total/NA	Solid	8015B NM	61372
890-5156-7	BH07	Total/NA	Solid	8015B NM	61372
MB 880-61372/1-A	Method Blank	Total/NA	Solid	8015B NM	61372
LCS 880-61372/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61372
LCSD 880-61372/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61372
890-5156-1 MS	BH01	Total/NA	Solid	8015B NM	61372
890-5156-1 MSD	BH01	Total/NA	Solid	8015B NM	61372

Analysis Batch: 61556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Total/NA	Solid	8015 NM	
890-5156-2	BH02	Total/NA	Solid	8015 NM	
890-5156-3	BH03	Total/NA	Solid	8015 NM	
890-5156-4	BH04	Total/NA	Solid	8015 NM	
890-5156-5	BH05	Total/NA	Solid	8015 NM	
890-5156-6	BH06	Total/NA	Solid	8015 NM	
890-5156-7	BH07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 61435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Soluble	Solid	DI Leach	
890-5156-2	BH02	Soluble	Solid	DI Leach	
890-5156-3	BH03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

HPLC/IC (Continued)

Leach Batch: 61435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-4	BH04	Soluble	Solid	DI Leach	
890-5156-5	BH05	Soluble	Solid	DI Leach	
890-5156-6	BH06	Soluble	Solid	DI Leach	
890-5156-7	BH07	Soluble	Solid	DI Leach	
MB 880-61435/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61435/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61435/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5156-1 MS	BH01	Soluble	Solid	DI Leach	
890-5156-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 61539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5156-1	BH01	Soluble	Solid	300.0	61435
890-5156-2	BH02	Soluble	Solid	300.0	61435
890-5156-3	BH03	Soluble	Solid	300.0	61435
890-5156-4	BH04	Soluble	Solid	300.0	61435
890-5156-5	BH05	Soluble	Solid	300.0	61435
890-5156-6	BH06	Soluble	Solid	300.0	61435
890-5156-7	BH07	Soluble	Solid	300.0	61435
MB 880-61435/1-A	Method Blank	Soluble	Solid	300.0	61435
LCS 880-61435/2-A	Lab Control Sample	Soluble	Solid	300.0	61435
LCSD 880-61435/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61435
890-5156-1 MS	BH01	Soluble	Solid	300.0	61435
890-5156-1 MSD	BH01	Soluble	Solid	300.0	61435

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH01

Lab Sample ID: 890-5156-1
Date Collected: 08/23/23 09:50
Matrix: Solid
Date Received: 08/25/23 08:15

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	61571	08/30/23 12:30	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61518	08/30/23 18:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	08/31/23 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 18:25	CH	EET MID

Client Sample ID: BH02

Lab Sample ID: 890-5156-2
Date Collected: 08/22/23 12:15
Matrix: Solid
Date Received: 08/25/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61571	08/30/23 12:30	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61518	08/30/23 19:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	08/31/23 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 21:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 18:45	CH	EET MID

Client Sample ID: BH03

Lab Sample ID: 890-5156-3
Date Collected: 08/22/23 10:00
Matrix: Solid
Date Received: 08/25/23 08:15

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	61571	08/30/23 12:30	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61518	08/30/23 19:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	08/31/23 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 21:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 18:51	CH	EET MID

Client Sample ID: BH04

Lab Sample ID: 890-5156-4
Date Collected: 08/22/23 12:55
Matrix: Solid
Date Received: 08/25/23 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61615	08/31/23 10:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61634	08/31/23 19:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	09/01/23 10:55	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH04
Date Collected: 08/22/23 12:55
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5156-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 22:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 18:58	CH	EET MID

Client Sample ID: BH05
Date Collected: 08/22/23 12:35
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5156-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	61615	08/31/23 10:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61634	08/31/23 19:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	09/01/23 10:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 22:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:05	CH	EET MID

Client Sample ID: BH06
Date Collected: 08/23/23 09:20
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5156-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	61615	08/31/23 10:15	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61634	08/31/23 20:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	09/01/23 10:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 22:54	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:25	CH	EET MID

Client Sample ID: BH07
Date Collected: 08/23/23 10:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5156-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61571	08/30/23 12:30	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61518	08/30/23 20:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61618	08/31/23 10:43	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61556	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61372	08/28/23 18:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 23:15	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Client Sample ID: BH07

Date Collected: 08/23/23 10:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5156-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:31	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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	T104704400-23-26	06-30-24

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: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5156-1
SDG: 03C1558254

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5156-1	BH01	Solid	08/23/23 09:50	08/25/23 08:15	2
890-5156-2	BH02	Solid	08/22/23 12:15	08/25/23 08:15	2
890-5156-3	BH03	Solid	08/22/23 10:00	08/25/23 08:15	2
890-5156-4	BH04	Solid	08/22/23 12:55	08/25/23 08:15	2
890-5156-5	BH05	Solid	08/22/23 12:35	08/25/23 08:15	2
890-5156-6	BH06	Solid	08/23/23 09:20	08/25/23 08:15	2
890-5156-7	BH07	Solid	08/23/23 10:15	08/25/23 08:15	2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Ashley Giovengo	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-988-0055	Email:	aglovengo@ensolum.com

Work Order Comments

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

Project Name:	Nash Deep East Battery	Turn Around	
Project Number:	03C1558254	☑ Routine ☐ Rush	Pres. Code
Project Location:	32.29924, -103.91340	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN0057
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.2

ANALYSIS REQUEST

890-5156 Chain of Custody

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	Chlorides	TPH		Sample Comments
BH01	S	8/23/23	0950	2'	G	1	X	X	X		Incident #:
~~BH02~~ me BH03		8/22/23	1000								NAPP2317832568
~~BH03~~ me BH02			1215								
BH04			1255								Cost Center:
BH05			1235								1056641001
BH06		8/23/23	0920								
BH07			1015								mroberts@ensolum.com
										me	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	8.25.23 8:15			
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 9/15/2023 12:42:05 PM

Released to Imaging: 2/8/2024 8:29:30 AM

9/1/2023

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5156-1
SDG Number: 03C1558254

Login Number: 5156
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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5156-1
SDG Number: 03C1558254

Login Number: 5156
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/28/23 09:44 AM

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 9/5/2023 10:44:33 AM Revision 1

JOB DESCRIPTION

Nash Deep East Battery
SDG NUMBER 03C1558254

JOB NUMBER

890-5157-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 2/8/2024 8:29:50 AM

my EOL

Eurofins Carlsbad

Job Notes

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

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

Authorization

JKRAMER

Generated
9/5/2023 10:44:33 AM
Revision 1

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

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Definitions/Glossary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Job ID: 890-5157-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5157-1

REVISION

The report being provided is a revision of the original report sent on 9/1/2023. The report (revision 1) is being revised due to Per client email, requesting sample #19 for chloride re run.

Receipt
The samples were received on 8/25/2023 8:15 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 2.2°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-61581 and analytical batch 880-61603 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-61603 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-61603/20).

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS04 (890-5157-4), FS11 (890-5157-11), FS12 (890-5157-12), SW06 (890-5157-20), (LCSD 880-61581/2-A), (890-5157-A-5-C MS) and (890-5157-A-5-D MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS05 (890-5157-5), FS08 (890-5157-8) and (890-5157-A-1-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS11 (890-5157-11), FS14 (890-5157-14) and SW01 (890-5157-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW06 (890-5157-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61415/20) and (CCV 880-61415/31). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-61768 and analytical batch 880-61779 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS01

Lab Sample ID: 890-5157-1
Matrix: Solid

Date Collected: 08/23/23 13:10
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 12:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 12:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 12:49	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		08/30/23 17:39	08/31/23 12:49	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/30/23 17:39	08/31/23 12:49	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		08/30/23 17:39	08/31/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:49*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 10:43	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 10:43	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*08/28/23 15:07*	*08/29/23 10:43*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/28/23 15:07*	*08/29/23 10:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**177**		5.00	mg/Kg			08/30/23 19:38	1

Client Sample ID: FS02

Lab Sample ID: 890-5157-2
Matrix: Solid

Date Collected: 08/23/23 13:15
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00474**		0.00201	mg/Kg		08/30/23 17:39	08/31/23 13:10	1
Toluene	**0.0106**		0.00201	mg/Kg		08/30/23 17:39	08/31/23 13:10	1
Ethylbenzene	**0.00205**		0.00201	mg/Kg		08/30/23 17:39	08/31/23 13:10	1
m-Xylene & p-Xylene	**0.00627**	***+**	0.00402	mg/Kg		08/30/23 17:39	08/31/23 13:10	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		08/30/23 17:39	08/31/23 13:10	1
Xylenes, Total	**0.00627**	***+**	0.00402	mg/Kg		08/30/23 17:39	08/31/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/30/23 17:39*	*08/31/23 13:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS02

Lab Sample ID: 890-5157-2
Matrix: Solid

Date Collected: 08/23/23 13:15
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130	08/30/23 17:39	08/31/23 13:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0237**		0.00402	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 11:48	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 11:48	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 11:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	08/28/23 15:07	08/29/23 11:48	1
o-Terphenyl	116		70 - 130	08/28/23 15:07	08/29/23 11:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**195**		5.00	mg/Kg			08/30/23 19:44	1

Client Sample ID: FS03

Lab Sample ID: 890-5157-3
Matrix: Solid

Date Collected: 08/23/23 13:20
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 13:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 13:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 13:30	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 13:30	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/30/23 17:39	08/31/23 13:30	1
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/30/23 17:39	08/31/23 13:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130	08/30/23 17:39	08/31/23 13:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			08/30/23 11:45	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS03

Lab Sample ID: 890-5157-3
Matrix: Solid

Date Collected: 08/23/23 13:20
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/28/23 15:07	08/29/23 12:09	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/28/23 15:07	08/29/23 12:09	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/28/23 15:07	08/29/23 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/28/23 15:07*	*08/29/23 12:09*	*1*
o-Terphenyl	*111*		*70 - 130*	*08/28/23 15:07*	*08/29/23 12:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		5.04	mg/Kg			08/30/23 19:51	1

Client Sample ID: FS04

Lab Sample ID: 890-5157-4
Matrix: Solid

Date Collected: 08/23/23 12:25
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 13:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 13:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 13:51	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 13:51	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 13:51	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/30/23 17:39*	*08/31/23 13:51*	*1*
1,4-Difluorobenzene (Surr)	*56*	*S1-*	*70 - 130*	*08/30/23 17:39*	*08/31/23 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 12:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 12:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*08/28/23 15:07*	*08/29/23 12:30*	*1*
o-Terphenyl	*108*		*70 - 130*	*08/28/23 15:07*	*08/29/23 12:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS04

Lab Sample ID: 890-5157-4
Matrix: Solid

Date Collected: 08/23/23 12:25
Date Received: 08/25/23 08:15
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		5.01	mg/Kg			08/30/23 19:58	1

Client Sample ID: FS05

Lab Sample ID: 890-5157-5
Matrix: Solid

Date Collected: 08/23/23 12:30
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00260**		0.00199	mg/Kg		08/30/23 17:39	08/31/23 12:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 12:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 12:29	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 12:29	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		08/30/23 17:39	08/31/23 12:29	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:29*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 12:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 12:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 12:52*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 12:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**301**		4.96	mg/Kg			08/30/23 20:18	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS06

Lab Sample ID: 890-5157-6
Matrix: Solid

Date Collected: 08/23/23 13:25
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 14:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 14:11	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 14:11	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 14:11	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		08/30/23 17:39	08/31/23 14:11	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/30/23 17:39*	*08/31/23 14:11*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*08/30/23 17:39*	*08/31/23 14:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 13:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 13:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*08/28/23 15:07*	*08/29/23 13:13*	*1*
o-Terphenyl	*110*		*70 - 130*	*08/28/23 15:07*	*08/29/23 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**336**		4.99	mg/Kg			08/30/23 20:24	1

Client Sample ID: FS07

Lab Sample ID: 890-5157-7
Matrix: Solid

Date Collected: 08/23/23 13:30
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 14:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 14:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 14:32	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		08/30/23 17:39	08/31/23 14:32	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/30/23 17:39	08/31/23 14:32	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		08/30/23 17:39	08/31/23 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/30/23 17:39*	*08/31/23 14:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS07

Lab Sample ID: 890-5157-7
Matrix: Solid

Date Collected: 08/23/23 13:30
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	08/30/23 17:39	08/31/23 14:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 13:35	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 13:35	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/28/23 15:07	08/29/23 13:35	1
o-Terphenyl	111		70 - 130	08/28/23 15:07	08/29/23 13:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		5.04	mg/Kg			08/30/23 20:44	1

Client Sample ID: FS08

Lab Sample ID: 890-5157-8
Matrix: Solid

Date Collected: 08/23/23 13:35
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/30/23 17:39	08/31/23 14:52	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/30/23 17:39	08/31/23 14:52	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/30/23 17:39	08/31/23 14:52	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/30/23 17:39	08/31/23 14:52	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		08/30/23 17:39	08/31/23 14:52	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		08/30/23 17:39	08/31/23 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/30/23 17:39	08/31/23 14:52	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130	08/30/23 17:39	08/31/23 14:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/30/23 11:45	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS08

Lab Sample ID: 890-5157-8
Matrix: Solid

Date Collected: 08/23/23 13:35
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 13:57	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 13:57	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 13:57*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 13:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		5.02	mg/Kg			08/30/23 20:51	1

Client Sample ID: FS09

Lab Sample ID: 890-5157-9
Matrix: Solid

Date Collected: 08/24/23 09:05
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 15:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 15:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 15:13	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 15:13	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/30/23 17:39	08/31/23 15:13	1
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*08/30/23 17:39*	*08/31/23 15:13*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*08/30/23 17:39*	*08/31/23 15:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 14:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 14:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/28/23 15:07*	*08/29/23 14:18*	*1*
o-Terphenyl	*116*		*70 - 130*	*08/28/23 15:07*	*08/29/23 14:18*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS09

Lab Sample ID: 890-5157-9
Matrix: Solid

Date Collected: 08/24/23 09:05
Date Received: 08/25/23 08:15
Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.00	mg/Kg			08/30/23 20:57	1

Client Sample ID: FS10

Lab Sample ID: 890-5157-10
Matrix: Solid

Date Collected: 08/24/23 09:10
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 15:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 15:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 15:33	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		08/30/23 17:39	08/31/23 15:33	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 15:33	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		08/30/23 17:39	08/31/23 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*08/30/23 17:39*	*08/31/23 15:33*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*08/30/23 17:39*	*08/31/23 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 14:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 14:40	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*08/28/23 15:07*	*08/29/23 14:40*	*1*
o-Terphenyl	*112*		*70 - 130*	*08/28/23 15:07*	*08/29/23 14:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		5.03	mg/Kg			08/30/23 21:04	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS11

Lab Sample ID: 890-5157-11
Matrix: Solid

Date Collected: 08/24/23 09:10
Date Received: 08/25/23 08:15
Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 17:03	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 17:03	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 17:03	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		08/30/23 17:39	08/31/23 17:03	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		08/30/23 17:39	08/31/23 17:03	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		08/30/23 17:39	08/31/23 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*08/30/23 17:39*	*08/31/23 17:03*	*1*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*08/30/23 17:39*	*08/31/23 17:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 15:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 15:23	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/28/23 15:07	08/29/23 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 15:23*	*1*
o-Terphenyl	*129*		*70 - 130*	*08/28/23 15:07*	*08/29/23 15:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		5.00	mg/Kg			08/31/23 03:37	1

Client Sample ID: FS12

Lab Sample ID: 890-5157-12
Matrix: Solid

Date Collected: 08/24/23 10:10
Date Received: 08/25/23 08:15
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:24	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 17:24	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:24	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*08/30/23 17:39*	*08/31/23 17:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS12

Lab Sample ID: 890-5157-12
Matrix: Solid

Date Collected: 08/24/23 10:10
Date Received: 08/25/23 08:15
Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	08/30/23 17:39	08/31/23 17:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 15:44	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 15:44	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/28/23 15:07	08/29/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	08/28/23 15:07	08/29/23 15:44	1
o-Terphenyl	115		70 - 130	08/28/23 15:07	08/29/23 15:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		5.03	mg/Kg			08/31/23 03:44	1

Client Sample ID: FS13

Lab Sample ID: 890-5157-13
Matrix: Solid

Date Collected: 08/24/23 10:35
Date Received: 08/25/23 08:15
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:44	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		08/30/23 17:39	08/31/23 17:44	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 17:44	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		08/30/23 17:39	08/31/23 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	08/30/23 17:39	08/31/23 17:44	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/30/23 17:39	08/31/23 17:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			08/30/23 11:45	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS13

Lab Sample ID: 890-5157-13
Matrix: Solid

Date Collected: 08/24/23 10:35
Date Received: 08/25/23 08:15
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/28/23 15:07	08/29/23 16:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/28/23 15:07	08/29/23 16:06	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/28/23 15:07	08/29/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*08/28/23 15:07*	*08/29/23 16:06*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/28/23 15:07*	*08/29/23 16:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**251**		5.02	mg/Kg			08/31/23 03:51	1

Client Sample ID: FS14

Lab Sample ID: 890-5157-14
Matrix: Solid

Date Collected: 08/24/23 13:15
Date Received: 08/25/23 08:15
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 18:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 18:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/30/23 17:39	08/31/23 18:05	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 18:05	1
o-Xylene	<0.00199	U *+	0.00199	mg/Kg		08/30/23 17:39	08/31/23 18:05	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		08/30/23 17:39	08/31/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:05*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 16:28	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 16:28	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 16:28*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/28/23 15:07*	*08/29/23 16:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS14

Lab Sample ID: 890-5157-14
Matrix: Solid

Date Collected: 08/24/23 13:15
Date Received: 08/25/23 08:15
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	251		4.99		mg/Kg			08/31/23 04:11	1

Client Sample ID: SW01

Lab Sample ID: 890-5157-15
Matrix: Solid

Date Collected: 08/22/23 13:05
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/23 17:39	08/31/23 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/23 17:39	08/31/23 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/23 17:39	08/31/23 18:25	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		08/30/23 17:39	08/31/23 18:25	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/30/23 17:39	08/31/23 18:25	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		08/30/23 17:39	08/31/23 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:25*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/28/23 15:07	08/29/23 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/28/23 15:07	08/29/23 16:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/28/23 15:07	08/29/23 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 16:49*	*1*
o-Terphenyl	*124*		*70 - 130*	*08/28/23 15:07*	*08/29/23 16:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.98		mg/Kg			08/31/23 04:17	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: SW02

Lab Sample ID: 890-5157-16
Matrix: Solid

Date Collected: 08/24/23 08:05
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 18:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 18:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/30/23 17:39	08/31/23 18:46	1
m-Xylene & p-Xylene	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 18:46	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/30/23 17:39	08/31/23 18:46	1
Xylenes, Total	<0.00403	U *+	0.00403	mg/Kg		08/30/23 17:39	08/31/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:46*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*08/30/23 17:39*	*08/31/23 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		08/28/23 15:07	08/29/23 17:11	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		08/28/23 15:07	08/29/23 17:11	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		08/28/23 15:07	08/29/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*08/28/23 15:07*	*08/29/23 17:11*	*1*
o-Terphenyl	*117*		*70 - 130*	*08/28/23 15:07*	*08/29/23 17:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3260**		24.9	mg/Kg			08/31/23 04:37	5

Client Sample ID: SW03

Lab Sample ID: 890-5157-17
Matrix: Solid

Date Collected: 08/24/23 08:10
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:06	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		08/30/23 17:39	08/31/23 19:06	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:06	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		08/30/23 17:39	08/31/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*08/30/23 17:39*	*08/31/23 19:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: SW03

Lab Sample ID: 890-5157-17
Matrix: Solid

Date Collected: 08/24/23 08:10
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	08/30/23 17:39	08/31/23 19:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 17:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 17:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/28/23 15:07	08/29/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	08/28/23 15:07	08/29/23 17:32	1
o-Terphenyl	115		70 - 130	08/28/23 15:07	08/29/23 17:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4280**		50.3	mg/Kg			08/31/23 04:44	10

Client Sample ID: SW04

Lab Sample ID: 890-5157-18
Matrix: Solid

Date Collected: 08/24/23 08:15
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:27	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 19:27	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/30/23 17:39	08/31/23 19:27	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		08/30/23 17:39	08/31/23 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	08/30/23 17:39	08/31/23 19:27	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/30/23 17:39	08/31/23 19:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			08/30/23 11:45	1

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: SW04

Lab Sample ID: 890-5157-18
Matrix: Solid

Date Collected: 08/24/23 08:15
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 17:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 17:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/28/23 15:07	08/29/23 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*08/28/23 15:07*	*08/29/23 17:54*	*1*
o-Terphenyl	*115*		*70 - 130*	*08/28/23 15:07*	*08/29/23 17:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**		25.0	mg/Kg			08/31/23 04:50	5

Client Sample ID: SW05

Lab Sample ID: 890-5157-19
Matrix: Solid

Date Collected: 08/24/23 13:25
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 19:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 19:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 19:47	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		08/30/23 17:39	08/31/23 19:47	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		08/30/23 17:39	08/31/23 19:47	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		08/30/23 17:39	08/31/23 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/30/23 17:39*	*08/31/23 19:47*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*08/30/23 17:39*	*08/31/23 19:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 18:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 18:16	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		08/28/23 15:07	08/29/23 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*08/28/23 15:07*	*08/29/23 18:16*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/28/23 15:07*	*08/29/23 18:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: SW05

Lab Sample ID: 890-5157-19
Matrix: Solid

Date Collected: 08/24/23 13:25
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		25.0	mg/Kg			09/02/23 06:03	5

Client Sample ID: SW06

Lab Sample ID: 890-5157-20
Matrix: Solid

Date Collected: 08/24/23 13:20
Date Received: 08/25/23 08:15
Sample Depth: 0 - 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 20:08	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 20:08	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/30/23 17:39	08/31/23 20:08	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		08/30/23 17:39	08/31/23 20:08	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		08/30/23 17:39	08/31/23 20:08	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		08/30/23 17:39	08/31/23 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*08/30/23 17:39*	*08/31/23 20:08*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*08/30/23 17:39*	*08/31/23 20:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			09/01/23 10:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			08/30/23 11:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 18:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 18:37	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		08/28/23 15:07	08/29/23 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*08/28/23 15:07*	*08/29/23 18:37*	*1*
o-Terphenyl	*129*		*70 - 130*	*08/28/23 15:07*	*08/29/23 18:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	177		5.01	mg/Kg			08/31/23 05:04	1

Surrogate Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

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)
890-5157-1	FS01	93	70
890-5157-2	FS02	127	118
890-5157-3	FS03	87	77
890-5157-4	FS04	105	56 S1-
890-5157-5	FS05	86	106
890-5157-5 MS	FS05	134 S1+	89
890-5157-5 MSD	FS05	134 S1+	119
890-5157-6	FS06	87	96
890-5157-7	FS07	97	66 S1-
890-5157-8	FS08	108	60 S1-
890-5157-9	FS09	104	74
890-5157-10	FS10	106	77
890-5157-11	FS11	79	67 S1-
890-5157-12	FS12	103	64 S1-
890-5157-13	FS13	88	81
890-5157-14	FS14	105	78
890-5157-15	SW01	88	78
890-5157-16	SW02	91	75
890-5157-17	SW03	127	97
890-5157-18	SW04	87	79
890-5157-19	SW05	92	79
890-5157-20	SW06	133 S1+	73
LCS 880-61581/1-A	Lab Control Sample	126	120
LCSD 880-61581/2-A	Lab Control Sample Dup	131 S1+	117
MB 880-61581/5-A	Method Blank	75	77

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5157-1	FS01	123	119
890-5157-1 MS	FS01	132 S1+	107
890-5157-1 MSD	FS01	125	102
890-5157-2	FS02	124	116
890-5157-3	FS03	124	111
890-5157-4	FS04	120	108
890-5157-5	FS05	135 S1+	131 S1+
890-5157-6	FS06	119	110
890-5157-7	FS07	120	111
890-5157-8	FS08	135 S1+	131 S1+
890-5157-9	FS09	124	116
890-5157-10	FS10	121	112
890-5157-11	FS11	135 S1+	129
890-5157-12	FS12	124	115

Surrogate Summary

Client: Ensolum
Job ID: 890-5157-1
Project/Site: Nash Deep East Battery
SDG: 03C1558254

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)**
890-5157-13	FS13	125	117
890-5157-14	FS14	134 S1+	127
890-5157-15	SW01	131 S1+	124
890-5157-16	SW02	127	117
890-5157-17	SW03	125	115
890-5157-18	SW04	124	115
890-5157-19	SW05	128	119
890-5157-20	SW06	140 S1+	129
LCS 880-61346/2-A	Lab Control Sample	105	106
LCSD 880-61346/3-A	Lab Control Sample Dup	115	114
MB 880-61346/1-A	Method Blank	114	106

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61581/5-A
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61581

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 12:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/30/23 17:39	08/31/23 12:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/30/23 17:39	08/31/23 12:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/30/23 17:39	08/31/23 12:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:07*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*08/30/23 17:39*	*08/31/23 12:07*	*1*

Lab Sample ID: LCS 880-61581/1-A
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1037		mg/Kg		104	70 - 130
Toluene	0.100	0.1171		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1202		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2683	*+	mg/Kg		134	70 - 130
o-Xylene	0.100	0.1300		mg/Kg		130	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 880-61581/2-A
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61581

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1017		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.1140		mg/Kg		114	70 - 130	3	35
Ethylbenzene	0.100	0.1222		mg/Kg		122	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2740	*+	mg/Kg		137	70 - 130	2	35
o-Xylene	0.100	0.1324	*+	mg/Kg		132	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 890-5157-5 MS
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: FS05
Prep Type: Total/NA
Prep Batch: 61581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00260		0.0990	0.08601		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0990	0.09684		mg/Kg		97	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

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

Lab Sample ID: 890-5157-5 MS
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: FS05
Prep Type: Total/NA
Prep Batch: 61581

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0990	0.09311		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00398	U *+	0.198	0.2010		mg/Kg		100	70 - 130
o-Xylene	<0.00199	U *+	0.0990	0.09959		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-5157-5 MSD
Matrix: Solid
Analysis Batch: 61603

Client Sample ID: FS05
Prep Type: Total/NA
Prep Batch: 61581

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00260		0.101	0.08421		mg/Kg		81	70 - 130	2	35
Toluene	<0.00199	U	0.101	0.08327		mg/Kg		81	70 - 130	15	35
Ethylbenzene	<0.00199	U	0.101	0.07973		mg/Kg		78	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U *+	0.202	0.1684		mg/Kg		82	70 - 130	18	35
o-Xylene	<0.00199	U *+	0.101	0.08453		mg/Kg		83	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

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

Lab Sample ID: MB 880-61346/1-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61346

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 08:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 08:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/28/23 15:07	08/29/23 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/28/23 15:07*	*08/29/23 08:12*	*1*
o-Terphenyl	*106*		*70 - 130*	*08/28/23 15:07*	*08/29/23 08:12*	*1*

Lab Sample ID: LCS 880-61346/2-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61346

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	901.3		mg/Kg		90	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

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

Lab Sample ID: LCS 880-61346/2-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61346

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-61346/3-A
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61346

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1079		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	882.1		mg/Kg		88	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 890-5157-1 MS
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 61346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	995.5		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1323		mg/Kg		130	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-5157-1 MSD
Matrix: Solid
Analysis Batch: 61415

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 61346

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	<50.3	U	997	972.2		mg/Kg		96	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1263		mg/Kg		124	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-61435/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/23 18:05	1

Lab Sample ID: LCS 880-61435/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-61435/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.1		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-5157-4 MS — **Client Sample ID: FS04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250		251	494.4		mg/Kg		97	90 - 110		

Lab Sample ID: 890-5157-4 MSD — **Client Sample ID: FS04**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250		251	491.4		mg/Kg		96	90 - 110	1	20

Lab Sample ID: MB 880-61436/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61601

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/23 01:58	1

Lab Sample ID: LCS 880-61436/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.1		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-61436/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 61601

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.8		mg/Kg		103	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5157-13 MS
Matrix: Solid
Analysis Batch: 61601

Client Sample ID: FS13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	251		251	495.2		mg/Kg		97	90 - 110		

Lab Sample ID: 890-5157-13 MSD
Matrix: Solid
Analysis Batch: 61601

Client Sample ID: FS13
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	251		251	494.4		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-61768/1-A
Matrix: Solid
Analysis Batch: 61779

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			09/02/23 03:30	1

Lab Sample ID: LCS 880-61768/2-A
Matrix: Solid
Analysis Batch: 61779

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-61768/3-A
Matrix: Solid
Analysis Batch: 61779

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 890-5168-A-4-E MS
Matrix: Solid
Analysis Batch: 61779

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	719	F1	250	916.0	F1	mg/Kg		79	90 - 110		

Lab Sample ID: 890-5168-A-4-F MSD
Matrix: Solid
Analysis Batch: 61779

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	719	F1	250	917.1	F1	mg/Kg		79	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

GC VOA

Prep Batch: 61581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	5035	
890-5157-2	FS02	Total/NA	Solid	5035	
890-5157-3	FS03	Total/NA	Solid	5035	
890-5157-4	FS04	Total/NA	Solid	5035	
890-5157-5	FS05	Total/NA	Solid	5035	
890-5157-6	FS06	Total/NA	Solid	5035	
890-5157-7	FS07	Total/NA	Solid	5035	
890-5157-8	FS08	Total/NA	Solid	5035	
890-5157-9	FS09	Total/NA	Solid	5035	
890-5157-10	FS10	Total/NA	Solid	5035	
890-5157-11	FS11	Total/NA	Solid	5035	
890-5157-12	FS12	Total/NA	Solid	5035	
890-5157-13	FS13	Total/NA	Solid	5035	
890-5157-14	FS14	Total/NA	Solid	5035	
890-5157-15	SW01	Total/NA	Solid	5035	
890-5157-16	SW02	Total/NA	Solid	5035	
890-5157-17	SW03	Total/NA	Solid	5035	
890-5157-18	SW04	Total/NA	Solid	5035	
890-5157-19	SW05	Total/NA	Solid	5035	
890-5157-20	SW06	Total/NA	Solid	5035	
MB 880-61581/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61581/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61581/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5157-5 MS	FS05	Total/NA	Solid	5035	
890-5157-5 MSD	FS05	Total/NA	Solid	5035	

Analysis Batch: 61603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	8021B	61581
890-5157-2	FS02	Total/NA	Solid	8021B	61581
890-5157-3	FS03	Total/NA	Solid	8021B	61581
890-5157-4	FS04	Total/NA	Solid	8021B	61581
890-5157-5	FS05	Total/NA	Solid	8021B	61581
890-5157-6	FS06	Total/NA	Solid	8021B	61581
890-5157-7	FS07	Total/NA	Solid	8021B	61581
890-5157-8	FS08	Total/NA	Solid	8021B	61581
890-5157-9	FS09	Total/NA	Solid	8021B	61581
890-5157-10	FS10	Total/NA	Solid	8021B	61581
890-5157-11	FS11	Total/NA	Solid	8021B	61581
890-5157-12	FS12	Total/NA	Solid	8021B	61581
890-5157-13	FS13	Total/NA	Solid	8021B	61581
890-5157-14	FS14	Total/NA	Solid	8021B	61581
890-5157-15	SW01	Total/NA	Solid	8021B	61581
890-5157-16	SW02	Total/NA	Solid	8021B	61581
890-5157-17	SW03	Total/NA	Solid	8021B	61581
890-5157-18	SW04	Total/NA	Solid	8021B	61581
890-5157-19	SW05	Total/NA	Solid	8021B	61581
890-5157-20	SW06	Total/NA	Solid	8021B	61581
MB 880-61581/5-A	Method Blank	Total/NA	Solid	8021B	61581
LCS 880-61581/1-A	Lab Control Sample	Total/NA	Solid	8021B	61581
LCSD 880-61581/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61581

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

GC VOA (Continued)

Analysis Batch: 61603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-5 MS	FS05	Total/NA	Solid	8021B	61581
890-5157-5 MSD	FS05	Total/NA	Solid	8021B	61581

Analysis Batch: 61726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	Total BTEX	
890-5157-2	FS02	Total/NA	Solid	Total BTEX	
890-5157-3	FS03	Total/NA	Solid	Total BTEX	
890-5157-4	FS04	Total/NA	Solid	Total BTEX	
890-5157-5	FS05	Total/NA	Solid	Total BTEX	
890-5157-6	FS06	Total/NA	Solid	Total BTEX	
890-5157-7	FS07	Total/NA	Solid	Total BTEX	
890-5157-8	FS08	Total/NA	Solid	Total BTEX	
890-5157-9	FS09	Total/NA	Solid	Total BTEX	
890-5157-10	FS10	Total/NA	Solid	Total BTEX	
890-5157-11	FS11	Total/NA	Solid	Total BTEX	
890-5157-12	FS12	Total/NA	Solid	Total BTEX	
890-5157-13	FS13	Total/NA	Solid	Total BTEX	
890-5157-14	FS14	Total/NA	Solid	Total BTEX	
890-5157-15	SW01	Total/NA	Solid	Total BTEX	
890-5157-16	SW02	Total/NA	Solid	Total BTEX	
890-5157-17	SW03	Total/NA	Solid	Total BTEX	
890-5157-18	SW04	Total/NA	Solid	Total BTEX	
890-5157-19	SW05	Total/NA	Solid	Total BTEX	
890-5157-20	SW06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	8015NM Prep	
890-5157-2	FS02	Total/NA	Solid	8015NM Prep	
890-5157-3	FS03	Total/NA	Solid	8015NM Prep	
890-5157-4	FS04	Total/NA	Solid	8015NM Prep	
890-5157-5	FS05	Total/NA	Solid	8015NM Prep	
890-5157-6	FS06	Total/NA	Solid	8015NM Prep	
890-5157-7	FS07	Total/NA	Solid	8015NM Prep	
890-5157-8	FS08	Total/NA	Solid	8015NM Prep	
890-5157-9	FS09	Total/NA	Solid	8015NM Prep	
890-5157-10	FS10	Total/NA	Solid	8015NM Prep	
890-5157-11	FS11	Total/NA	Solid	8015NM Prep	
890-5157-12	FS12	Total/NA	Solid	8015NM Prep	
890-5157-13	FS13	Total/NA	Solid	8015NM Prep	
890-5157-14	FS14	Total/NA	Solid	8015NM Prep	
890-5157-15	SW01	Total/NA	Solid	8015NM Prep	
890-5157-16	SW02	Total/NA	Solid	8015NM Prep	
890-5157-17	SW03	Total/NA	Solid	8015NM Prep	
890-5157-18	SW04	Total/NA	Solid	8015NM Prep	
890-5157-19	SW05	Total/NA	Solid	8015NM Prep	
890-5157-20	SW06	Total/NA	Solid	8015NM Prep	
MB 880-61346/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

GC Semi VOA (Continued)

Prep Batch: 61346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-61346/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61346/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5157-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-5157-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	8015B NM	61346
890-5157-2	FS02	Total/NA	Solid	8015B NM	61346
890-5157-3	FS03	Total/NA	Solid	8015B NM	61346
890-5157-4	FS04	Total/NA	Solid	8015B NM	61346
890-5157-5	FS05	Total/NA	Solid	8015B NM	61346
890-5157-6	FS06	Total/NA	Solid	8015B NM	61346
890-5157-7	FS07	Total/NA	Solid	8015B NM	61346
890-5157-8	FS08	Total/NA	Solid	8015B NM	61346
890-5157-9	FS09	Total/NA	Solid	8015B NM	61346
890-5157-10	FS10	Total/NA	Solid	8015B NM	61346
890-5157-11	FS11	Total/NA	Solid	8015B NM	61346
890-5157-12	FS12	Total/NA	Solid	8015B NM	61346
890-5157-13	FS13	Total/NA	Solid	8015B NM	61346
890-5157-14	FS14	Total/NA	Solid	8015B NM	61346
890-5157-15	SW01	Total/NA	Solid	8015B NM	61346
890-5157-16	SW02	Total/NA	Solid	8015B NM	61346
890-5157-17	SW03	Total/NA	Solid	8015B NM	61346
890-5157-18	SW04	Total/NA	Solid	8015B NM	61346
890-5157-19	SW05	Total/NA	Solid	8015B NM	61346
890-5157-20	SW06	Total/NA	Solid	8015B NM	61346
MB 880-61346/1-A	Method Blank	Total/NA	Solid	8015B NM	61346
LCS 880-61346/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61346
LCSD 880-61346/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61346
890-5157-1 MS	FS01	Total/NA	Solid	8015B NM	61346
890-5157-1 MSD	FS01	Total/NA	Solid	8015B NM	61346

Analysis Batch: 61555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Total/NA	Solid	8015 NM	
890-5157-2	FS02	Total/NA	Solid	8015 NM	
890-5157-3	FS03	Total/NA	Solid	8015 NM	
890-5157-4	FS04	Total/NA	Solid	8015 NM	
890-5157-5	FS05	Total/NA	Solid	8015 NM	
890-5157-6	FS06	Total/NA	Solid	8015 NM	
890-5157-7	FS07	Total/NA	Solid	8015 NM	
890-5157-8	FS08	Total/NA	Solid	8015 NM	
890-5157-9	FS09	Total/NA	Solid	8015 NM	
890-5157-10	FS10	Total/NA	Solid	8015 NM	
890-5157-11	FS11	Total/NA	Solid	8015 NM	
890-5157-12	FS12	Total/NA	Solid	8015 NM	
890-5157-13	FS13	Total/NA	Solid	8015 NM	
890-5157-14	FS14	Total/NA	Solid	8015 NM	
890-5157-15	SW01	Total/NA	Solid	8015 NM	
890-5157-16	SW02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

GC Semi VOA (Continued)

Analysis Batch: 61555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-17	SW03	Total/NA	Solid	8015 NM	
890-5157-18	SW04	Total/NA	Solid	8015 NM	
890-5157-19	SW05	Total/NA	Solid	8015 NM	
890-5157-20	SW06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 61435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Soluble	Solid	DI Leach	
890-5157-2	FS02	Soluble	Solid	DI Leach	
890-5157-3	FS03	Soluble	Solid	DI Leach	
890-5157-4	FS04	Soluble	Solid	DI Leach	
890-5157-5	FS05	Soluble	Solid	DI Leach	
890-5157-6	FS06	Soluble	Solid	DI Leach	
890-5157-7	FS07	Soluble	Solid	DI Leach	
890-5157-8	FS08	Soluble	Solid	DI Leach	
890-5157-9	FS09	Soluble	Solid	DI Leach	
890-5157-10	FS10	Soluble	Solid	DI Leach	
MB 880-61435/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61435/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61435/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5157-4 MS	FS04	Soluble	Solid	DI Leach	
890-5157-4 MSD	FS04	Soluble	Solid	DI Leach	

Leach Batch: 61436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-11	FS11	Soluble	Solid	DI Leach	
890-5157-12	FS12	Soluble	Solid	DI Leach	
890-5157-13	FS13	Soluble	Solid	DI Leach	
890-5157-14	FS14	Soluble	Solid	DI Leach	
890-5157-15	SW01	Soluble	Solid	DI Leach	
890-5157-16	SW02	Soluble	Solid	DI Leach	
890-5157-17	SW03	Soluble	Solid	DI Leach	
890-5157-18	SW04	Soluble	Solid	DI Leach	
890-5157-20	SW06	Soluble	Solid	DI Leach	
MB 880-61436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5157-13 MS	FS13	Soluble	Solid	DI Leach	
890-5157-13 MSD	FS13	Soluble	Solid	DI Leach	

Analysis Batch: 61539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-1	FS01	Soluble	Solid	300.0	61435
890-5157-2	FS02	Soluble	Solid	300.0	61435
890-5157-3	FS03	Soluble	Solid	300.0	61435
890-5157-4	FS04	Soluble	Solid	300.0	61435
890-5157-5	FS05	Soluble	Solid	300.0	61435
890-5157-6	FS06	Soluble	Solid	300.0	61435
890-5157-7	FS07	Soluble	Solid	300.0	61435

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

HPLC/IC (Continued)

Analysis Batch: 61539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-8	FS08	Soluble	Solid	300.0	61435
890-5157-9	FS09	Soluble	Solid	300.0	61435
890-5157-10	FS10	Soluble	Solid	300.0	61435
MB 880-61435/1-A	Method Blank	Soluble	Solid	300.0	61435
LCS 880-61435/2-A	Lab Control Sample	Soluble	Solid	300.0	61435
LCSD 880-61435/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61435
890-5157-4 MS	FS04	Soluble	Solid	300.0	61435
890-5157-4 MSD	FS04	Soluble	Solid	300.0	61435

Analysis Batch: 61601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-11	FS11	Soluble	Solid	300.0	61436
890-5157-12	FS12	Soluble	Solid	300.0	61436
890-5157-13	FS13	Soluble	Solid	300.0	61436
890-5157-14	FS14	Soluble	Solid	300.0	61436
890-5157-15	SW01	Soluble	Solid	300.0	61436
890-5157-16	SW02	Soluble	Solid	300.0	61436
890-5157-17	SW03	Soluble	Solid	300.0	61436
890-5157-18	SW04	Soluble	Solid	300.0	61436
890-5157-20	SW06	Soluble	Solid	300.0	61436
MB 880-61436/1-A	Method Blank	Soluble	Solid	300.0	61436
LCS 880-61436/2-A	Lab Control Sample	Soluble	Solid	300.0	61436
LCSD 880-61436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61436
890-5157-13 MS	FS13	Soluble	Solid	300.0	61436
890-5157-13 MSD	FS13	Soluble	Solid	300.0	61436

Leach Batch: 61768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-19	SW05	Soluble	Solid	DI Leach	
MB 880-61768/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61768/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61768/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5168-A-4-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5168-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 61779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5157-19	SW05	Soluble	Solid	300.0	61768
MB 880-61768/1-A	Method Blank	Soluble	Solid	300.0	61768
LCS 880-61768/2-A	Lab Control Sample	Soluble	Solid	300.0	61768
LCSD 880-61768/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61768
890-5168-A-4-E MS	Matrix Spike	Soluble	Solid	300.0	61768
890-5168-A-4-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	61768

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS01
Date Collected: 08/23/23 13:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 12:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 10:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:38	CH	EET MID

Client Sample ID: FS02
Date Collected: 08/23/23 13:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 13:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 11:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:44	CH	EET MID

Client Sample ID: FS03
Date Collected: 08/23/23 13:20
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 13:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 12:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:51	CH	EET MID

Client Sample ID: FS04
Date Collected: 08/23/23 12:25
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 13:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS04
Date Collected: 08/23/23 12:25
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 19:58	CH	EET MID

Client Sample ID: FS05
Date Collected: 08/23/23 12:30
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 12:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 12:52	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 20:18	CH	EET MID

Client Sample ID: FS06
Date Collected: 08/23/23 13:25
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 14:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 13:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 20:24	CH	EET MID

Client Sample ID: FS07
Date Collected: 08/23/23 13:30
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 14:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 13:35	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS07
Date Collected: 08/23/23 13:30
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 20:44	CH	EET MID

Client Sample ID: FS08
Date Collected: 08/23/23 13:35
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 14:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 13:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 20:51	CH	EET MID

Client Sample ID: FS09
Date Collected: 08/24/23 09:05
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 15:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 14:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 20:57	CH	EET MID

Client Sample ID: FS10
Date Collected: 08/24/23 09:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 15:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 14:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	61435	08/29/23 10:04	SMC	EET MID
Soluble	Analysis	300.0		1			61539	08/30/23 21:04	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS11
Date Collected: 08/24/23 09:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 17:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 15:23	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 03:37	SMC	EET MID

Client Sample ID: FS12
Date Collected: 08/24/23 10:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 17:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 03:44	SMC	EET MID

Client Sample ID: FS13
Date Collected: 08/24/23 10:35
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 17:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 16:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 03:51	SMC	EET MID

Client Sample ID: FS14
Date Collected: 08/24/23 13:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 18:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: FS14
Date Collected: 08/24/23 13:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 16:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 04:11	SMC	EET MID

Client Sample ID: SW01
Date Collected: 08/22/23 13:05
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 18:25	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 16:49	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 04:17	SMC	EET MID

Client Sample ID: SW02
Date Collected: 08/24/23 08:05
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 18:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 17:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61601	08/31/23 04:37	SMC	EET MID

Client Sample ID: SW03
Date Collected: 08/24/23 08:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 19:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 17:32	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Client Sample ID: SW03
Date Collected: 08/24/23 08:10
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	61601	08/31/23 04:44	SMC	EET MID

Client Sample ID: SW04
Date Collected: 08/24/23 08:15
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 19:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61601	08/31/23 04:50	SMC	EET MID

Client Sample ID: SW05
Date Collected: 08/24/23 13:25
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 19:47	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	61768	09/01/23 14:17	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61779	09/02/23 06:03	CH	EET MID

Client Sample ID: SW06
Date Collected: 08/24/23 13:20
Date Received: 08/25/23 08:15

Lab Sample ID: 890-5157-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	61581	08/30/23 17:39	AJ	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61603	08/31/23 20:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61726	09/01/23 10:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61555	08/30/23 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61346	08/28/23 15:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61415	08/29/23 18:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	61436	08/29/23 10:08	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	61601	08/31/23 05:04	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

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	T104704400-23-26	06-30-24

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: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

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

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5157-1
SDG: 03C1558254

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5157-1	FS01	Solid	08/23/23 13:10	08/25/23 08:15	2.5
890-5157-2	FS02	Solid	08/23/23 13:15	08/25/23 08:15	2.5
890-5157-3	FS03	Solid	08/23/23 13:20	08/25/23 08:15	2.5
890-5157-4	FS04	Solid	08/23/23 12:25	08/25/23 08:15	2
890-5157-5	FS05	Solid	08/23/23 12:30	08/25/23 08:15	2
890-5157-6	FS06	Solid	08/23/23 13:25	08/25/23 08:15	2.5
890-5157-7	FS07	Solid	08/23/23 13:30	08/25/23 08:15	2.5
890-5157-8	FS08	Solid	08/23/23 13:35	08/25/23 08:15	2.5
890-5157-9	FS09	Solid	08/24/23 09:05	08/25/23 08:15	2.5
890-5157-10	FS10	Solid	08/24/23 09:10	08/25/23 08:15	2.5
890-5157-11	FS11	Solid	08/24/23 09:10	08/25/23 08:15	2.5
890-5157-12	FS12	Solid	08/24/23 10:10	08/25/23 08:15	1
890-5157-13	FS13	Solid	08/24/23 10:35	08/25/23 08:15	0.5
890-5157-14	FS14	Solid	08/24/23 13:15	08/25/23 08:15	2
890-5157-15	SW01	Solid	08/22/23 13:05	08/25/23 08:15	0 - 2.5
890-5157-16	SW02	Solid	08/24/23 08:05	08/25/23 08:15	0 - 2
890-5157-17	SW03	Solid	08/24/23 08:10	08/25/23 08:15	0 - 2.5
890-5157-18	SW04	Solid	08/24/23 08:15	08/25/23 08:15	0 - 2.5
890-5157-19	SW05	Solid	08/24/23 13:25	08/25/23 08:15	0 - 2.5
890-5157-20	SW06	Solid	08/24/23 13:20	08/25/23 08:15	0 - 2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ashley Giovengo	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy, Inc
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-988-0055	Email:	aglovengo@ensolum.com

Work Order Comments

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

Project Name:	Nash Deep East Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558254	Due Date:	
Project Location:	32.29924, -103.91340	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	22.4
Total Containers:		Corrected Temperature:	22.2

ANALYSIS REQUEST

890-5157 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; NaHSO$_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	Chlorides	TPH	Sample Comments
FS01	S	8/23/23	1310	2.5'	C	1	X	X	X	Incident #:
FS02	↓	↓	1315	↓	↓	↓	↓	↓	↓	NAPP2317832586
FS03	↓	↓	1320	↓	↓	↓	↓	↓	↓	
FS04	↓	↓	1225	2'	↓	↓	↓	↓	↓	Cost Center:
FS05	↓	↓	1230	↓	↓	↓	↓	↓	↓	1056641001
FS06	↓	↓	1325	2.5'	↓	↓	↓	↓	↓	
FS07	↓	↓	1330	↓	↓	↓	↓	↓	↓	mroberts@ensolum.com
FS08	↓	↓	1335	↓	↓	↓	↓	↓	↓	
FS09	↓	8/24/23	0905	↓	↓	↓	↓	↓	↓	
FS10	↓	↓	0910	↓	↓	↓	↓	↓	↓	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	8-25-23 815			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

9/5/2023 (Rev. 1)

Received by OCD: 9/15/2023 12:42:05 PM

Released to Imaging: 2/8/2024 8:29:30 AM

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Ashley Giovengo	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy, Inc
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575.988.0055	Email:	agiovengo@ensolum.com

Work Order Comments

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

Project Name:	NashDeep East Battery	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558254	Pres. Code	
Project Location:	32.29924, -103.91340	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.2

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	Chlorides	TPH	Sample Comments
FS11	S	8/24/23	0910	2.5'	C	1	X	X	X	Incident #:
FS12	↓	↓	1010	1'	↓	↓	↓	↓	↓	NAPP2317852586
FS13	↓	↓	1035	0.5'	↓	↓	↓	↓	↓	
FS14	↓	↓	1315	2'	↓	↓	↓	↓	↓	Cost Center:
SW01	↓	8/23/23	1305	0-2.5'	↓	↓	↓	↓	↓	1056641001
SW02	↓	8/24/23	0805	0-2'	↓	↓	↓	↓	↓	
SW03	↓	↓	0810	0-2.5'	↓	↓	↓	↓	↓	mroberts@ensolum.com
SW04	↓	↓	0815	0-2.5'	↓	↓	↓	↓	↓	
SW05	↓	↓	1325	0-2.5'	↓	↓	↓	↓	↓	
SW06	↓	↓	1320	0-2'	↓	↓	↓	↓	↓	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Meares	[signature]	8.25.23 815			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

9/5/2023 (Rev. 1)

Received by OCD: 9/15/2023 12:42:05 PM

Released to Imaging: 2/8/2024 8:29:30 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5157-1
SDG Number: 03C1558254

Login Number: 5157
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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5157-1
SDG Number: 03C1558254

Login Number: 5157
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/28/23 09:44 AM

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

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Ben Belill
To: Garrett Green (garrett.green@exxonmobil.com); Melanie Collins (melanie.collins@exxonmobil.com); DelawareSpills@exxonmobil.com
Cc: Ashley Ager; Ashley Giovengo
Subject: XTO - Sampling Notification (Week of 8/21/23 - 8/25/23)
Date: Wednesday, August 16, 2023 4:00:52 PM
Attachments: image001.png
image002.png
image003.png
image004.png

Hi Garrett,

Please see the email below for NMOCD sampling notification. The Ekalaka is the only on one State Land.

All,

XTO plans to complete final sampling activities at the sites listed below for the week of August 21, 2023.

Monday
- JRU DI 11 Ekalaka 823H / nAPP2224527297 (SLO)

Tuesday
- Nash Deep East Battery / nAPP2317832586
- JRU DI 11 Ekalaka 823H / nAPP2224527297 (SLO)

Wednesday
- JRU DI 11 Ekalaka 823H / nAPP2224527297 (SLO)
- Nash Deep East Battery / nAPP2317832586

Thursday
- James Ranch Unit Booster / NAPP2319954265
- JRU DI 11 Ekalaka 823H / nAPP2224527297 (SLO)
- Nash Deep East Battery / nAPP2317832586

Friday
- James Ranch Unit Booster / NAPP2319954265
- JRU DI 11 Ekalaka 823H / nAPP2224527297 (SLO)

Thank you,

Benjamin Belill
Project Geologist
989-854-0852
Ensolum, LLC

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

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 265798
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for Incident Numbers NAPP2317832586 until the site is reconstructed, and/or the well pad is abandoned. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is the impacted soil beneath active production equipment and surface piping, where remediation would require a major facility deconstruction (Figure 4). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	2/8/2024