

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	nAPP2327146621
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 32.29974 Longitude -103.91346
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Nash Deep East Battery	Site Type	Tank Battery
Date Release Discovered	09/19/2023	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) 6.28	Volume Recovered (bbls) 3.00
	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 caused a 6" water leg to release fluids to ground. Free fluids were recovered. A third-party contractor has been retained for remediation purposes.

Page 2

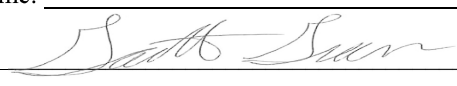
State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327146621
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Garrett Green</u>	Title: <u>Environmental Coordinator</u>
Signature: <u></u>	Date: <u>9/28/2023</u>
email: <u>garrett.green@exxonmobil.com</u>	Telephone: <u>575-200-0729</u>
<u>OCD Only</u>	
Received by: <u>Scott Rodgers</u>	Date: <u>09/28/2023</u>

Location:	Nash Deep East Battery	
Spill Date:	9/19/2023	
Area 1		
Approximate Area =	7375.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.28	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	6.28	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	3.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 270190

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 270190
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	9/28/2023

Incident ID	nAPP2327146621
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?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327146621
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: _____
email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2327146621
District RP	
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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: _____

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: _____



December 11, 2023

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

**Re: Deferral Request
Nash Deep East Battery
Incident Number NAPP2327146621
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 assessment, delineation, excavation, and soil sampling activities at the Nash Deep East Battery (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number NAPP2327146621 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 18, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.29974°, -103.91346°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On September 19, 2023, internal corrosion on a 6-inch produced water pipeline resulted in the release of approximately 6.28 barrels (bbls) of produced water onto the surface of the well pad and around active production equipment and process piping. A vacuum truck was immediately dispatched to the Site and recovered approximately 3.00 bbls of released fluids. XTO submitted a Release Notification Form C-141 (Form C-141) on September 28, 2023. The release was assigned Incident Number NAPP2327146621.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is USGS well 321742103552601, located approximately 0.69 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 66 feet bgs and a total depth of

XTO Energy, Inc.
Deferral Request
Nash Deep East Battery

100 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal riverine, located approximately 335 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 Site being underlain by a potentially high karst designated area, the following 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

SITE ASSESSMENT ACTIVITIES

On October 19, 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 at a depth 0.5 feet bgs. Delineation soil samples SS01 through SS03 were collected within the release extent and SS04 through SS07 were collected outside of the release extent to define the edge of the release. The delineation soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and delineation 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 delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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. Soil samples delivered to the laboratory the same day they were collected may not have equilibrated to the 6 degrees Celsius required for shipment and long-term storage but are considered to have been received in acceptable condition by the laboratory.

Laboratory analytical results from delineation soil samples SS01 through SS03 indicated chloride concentrations exceeded the Closure Criteria. Based on laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.

DELINEATION AND EXCAVATION ACTIVITIES

Between November 6 and 9, 2023, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Seven potholes (SS01/SS01A through SS03/SS03A, and PH01 through PH04) were advanced via heavy equipment to assess the lateral and vertical definition of the release. Potholes

XTO Energy, Inc.
Deferral Request
Nash Deep East Battery

SS01A through SS03A were advanced in the vicinity of delineation soil samples SS01 through SS03, respectively. All potholes were advanced to depths ranging from 2 feet to 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. The delineation soil samples were field screened, handled, and submitted for analysis for the same COCs as described above. Field screening results and observations from all potholes were logged on a lithologic/soil sampling log, which are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil was excavated to the maximum extent possible (MEP) with heavy equipment, hydrovac, and hand shoveling in the area represented by delineation soil samples SS01 through SS03. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment. Due to the release extent area existing around active production equipment and surface piping, the excavation consisted of 3 individual areas as shown on Figure 3. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor of the excavations (FS01 through FS15) at depths ranging from 1-foot to 4 feet bgs, and every 200 square feet from the sidewalls of the excavations (SW01 through SW06) at depths ranging from ground surface to 4 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 thoroughly mixing. Confirmation soil samples were handled and analyzed in the same manner as described above. All floor and sidewall excavation confirmation soil sample locations are depicted on Figure 3.

The final excavated area between the 3 extents measured to approximately 2,809 square feet. A total of approximately 360 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS03 indicated chloride concentrations exceeded Site Closure Criteria. The soil represented by those soil samples was removed during excavation activities. All excavation confirmation samples were in compliance with Closure Criteria, except for sidewall soil sample SW05 (chloride: 702 mg/kg). Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix D. NMOCD notifications are provided in Appendix E.

DEFERRAL REQUEST

Due to active production equipment and process piping in the area, excavation of impacted soil within the release extent was limited to the MEP. XTO is requesting deferral of final remediation of the release. The estimated area of remaining impacted soil measures an area of 4,058 square feet, and a total of approximately 600 cubic yards of impacted soil remains in place, assuming a maximum depth of 4 feet bgs based on laboratory analytical results from SW05. This volume is likely conservative based on field screening and laboratory analytical results from terminal depths of SS01 through SS03 and most confirmation floor sample depths ranging from 1-foot to 2 feet bgs. The impacted soil is limited to the area beneath active production equipment and surface piping where remediation would require major facility deconstruction. The release extent has been vertically delineated by soil samples SS01 through SS03. The release extent is laterally defined by delineation soil samples SS04 through SS07, PH01 through PH04, and two lined tank battery containments located along the western edge of the release. The proposed deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4. The deferral area and the production equipment and process piping area are presented in Photographs 6 through 8 in the Photographic Log (Appendix B).

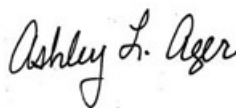
XTO Energy, Inc.
Deferral Request
Nash Deep East Battery

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be between 51 feet and 100 feet, and the entirety of the release remained on pad. Based on the presence of active production equipment and surface piping 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 NAPP2327146621 until final reclamation of the well pad or major construction, whichever comes first.

Sincerely,
Ensolum, LLC



Benjamin J. Belill
Project Geologist



Ashley L. Ager, MS, PG
Principal

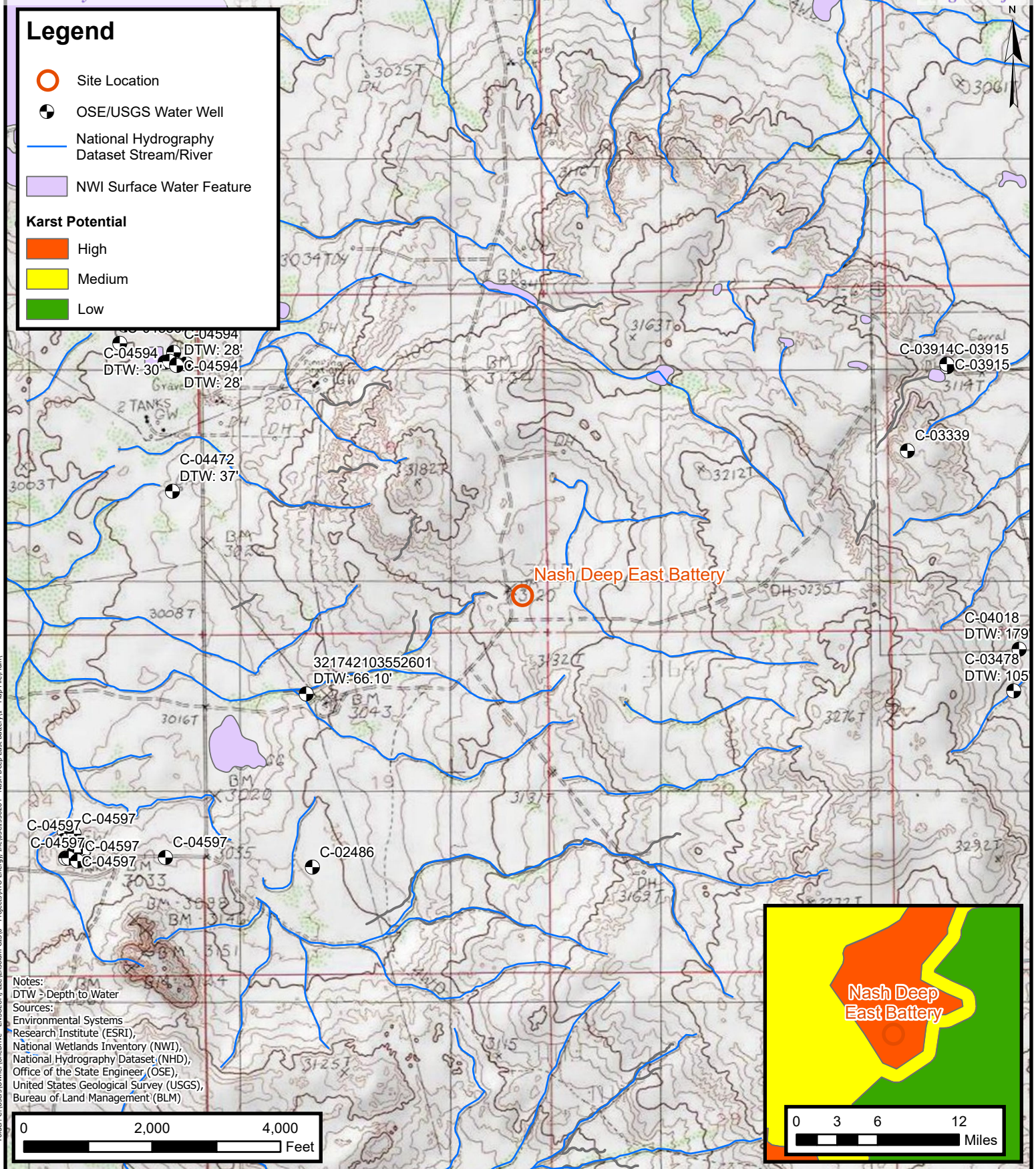
cc: Garrett Green, XTO
Tommee Lambert, XTO
BLM

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral Area Map
Table 1	Soil Sample Analytical Results
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 Notifications



FIGURES



Site Receptor Map

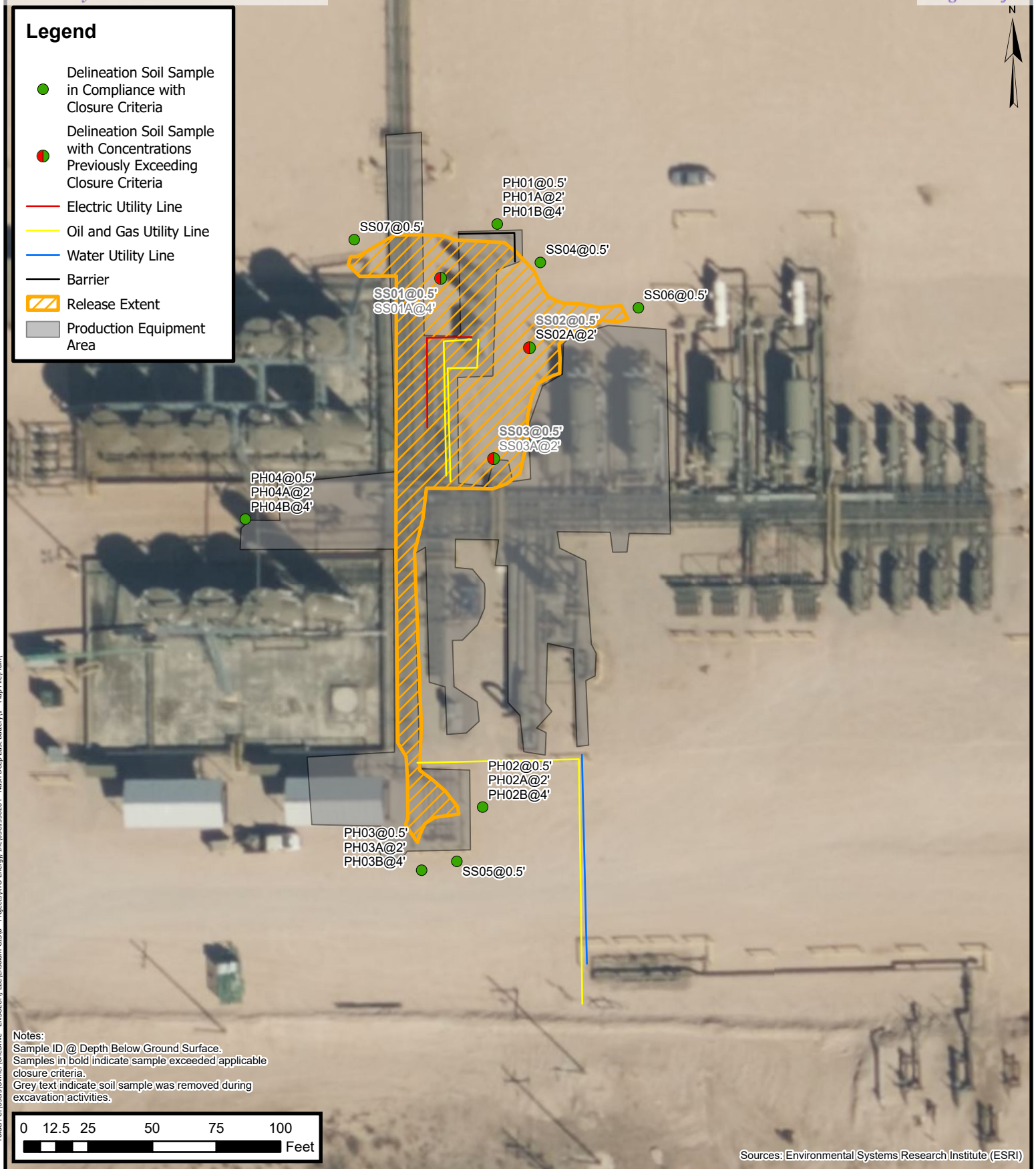
XTO Energy, Inc
Nash Deep East Battery
Incident Number: nAPP2327146621
Unit P, Sec 18, T23S, R30E
Eddy County, New Mexico

FIGURE

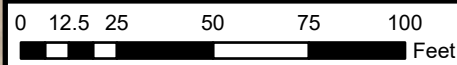
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Barrier
- Release Extent
- Production Equipment Area



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.



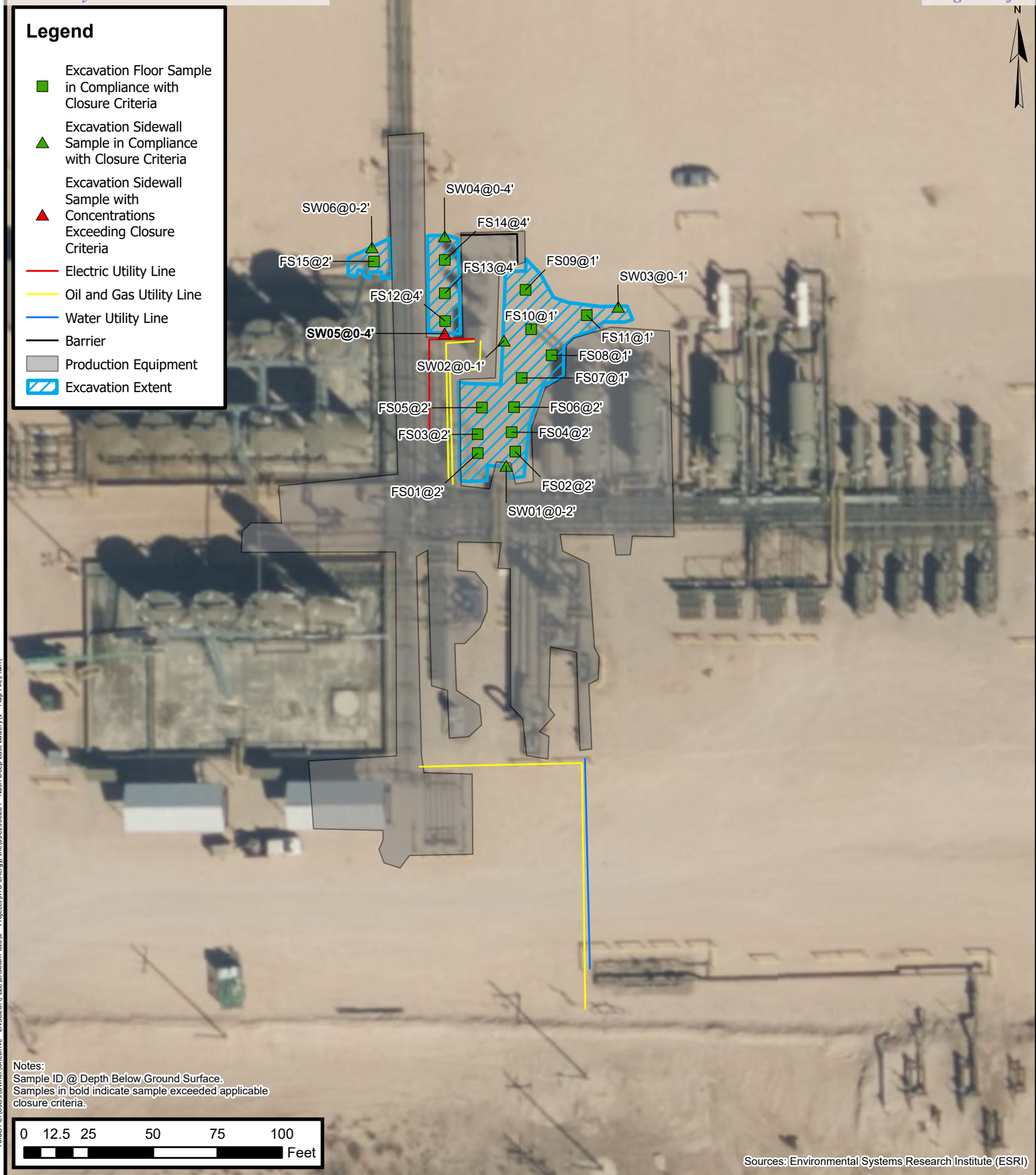
Delineation Soil Sample Locations

XTO Energy, Inc
 Nash Deep East Battery
 Incident Number: nAPP2327146621
 Unit P, Sec 18, T23S, R30E
 Eddy County, New Mexico

FIGURE

2



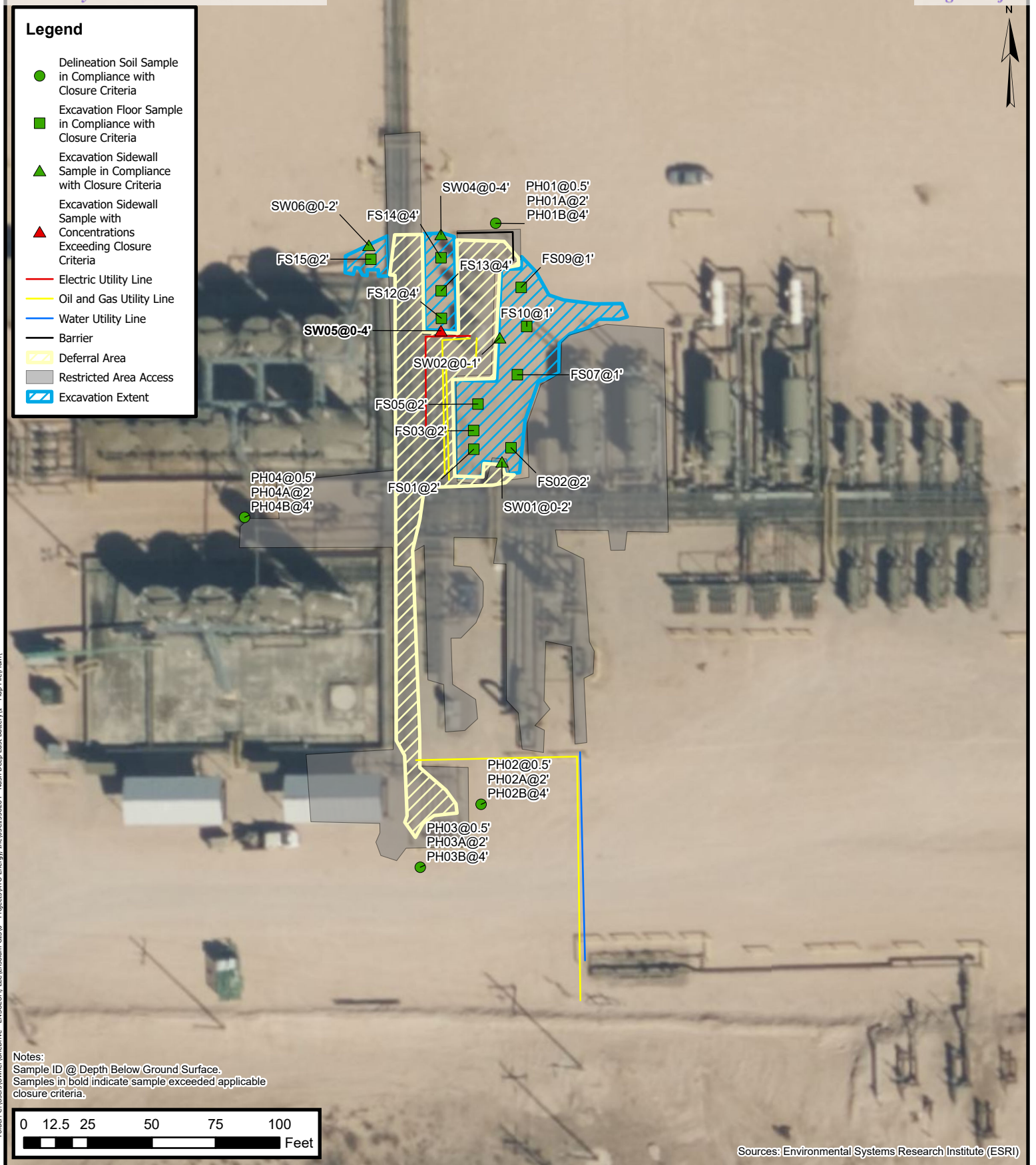


Excavation Soil Sample Locations

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 Eddy County, New Mexico

FIGURE

3



Deferral Area Map

XTO Energy, Inc
 Nash Deep East Battery
 Incident Number: nAPP2327146621
 Unit P, Sec 18, T23S, R30E
 Eddy County, New Mexico

FIGURE

4



TABLES



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	100	100	600
Delineation Soil Samples										
SS01	10/19/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	38,000
SS01A	11/06/2023	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	316
SS02	10/19/2023	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	8,250
SS02A	11/06/2023	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	133
SS03	10/19/2023	0.5	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	1,890
SS03A	11/06/2023	2	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	47.9
SS04	10/19/2023	0.5	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	248
SS05	10/19/2023	0.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	204
SS06	10/19/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	199
SS07	10/19/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	71.8
PH01	11/08/2023	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	402
PH01A	11/08/2023	2	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	61.7
PH01B	11/08/2023	4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	251
PH02	11/09/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	47.3
PH02A	11/09/2023	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	40.3
PH02B	11/09/2023	4	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	41.9
PH03	11/09/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18.8
PH03A	11/09/2023	2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	16.4
PH03B	11/09/2023	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	14.7
PH04	11/09/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	63.7
PH04A	11/09/2023	2	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	58.3
PH04B	11/09/2023	4	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	55.5
Confirmation Soil Samples										
FS01	11/07/2023	2	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	108
FS02	11/07/2023	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	98.5
FS03	11/07/2023	2	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	91.1
FS04	11/07/2023	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	147
FS05	11/07/2023	2	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	75.8
FS06	11/07/2023	2	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	170
FS07	11/07/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	162
FS08	11/07/2023	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	69.9
FS09	11/07/2023	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	127
FS10	11/07/2023	1	<0.00199	<0.00398	<49.5	<49.5	<49.5	<49.5	<49.5	128



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	100	100	600
FS11	11/07/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.4
FS12	11/08/2023	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	309
FS13	11/08/2023	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	293
FS14	11/08/2023	4	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	194
FS15	11/08/2023	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	48.9
SW01	11/07/2023	0 - 2	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	180
SW02	11/07/2023	0 - 1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	113
SW03	11/07/2023	0 - 1	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	38.3
SW04	11/08/2023	0 - 4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	212
SW05	11/08/2023	0 - 4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	702
SW06	11/08/2023	0 - 2	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	46.0

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 I Closure Criteria

Grey text indicates soil sample removed during excavation activities
- GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

Referenced Well Records



National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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Groundwater levels for the Nation

1 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](#)

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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

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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

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

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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



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
Nash Deep East Battery
Incident Number nAPP2327146621

Date & Time: Thu, Oct 19, 2023 at 13:00:00 MDT
Position: +032.299431° / -103.913519° (+15.7ft)
Altitude: 3132ft (+10.0ft)
Datum: WGS-84
Azimuth/Bearing: 229° S229° 3992mils True (+12°)
Elevation Angle: -06.6°
Horizon Angle: +00.3°
Zoom: 1.0X
Nash Deep East initial



Photograph 1 Date: 10/19/2023
Description: Site assessment activities, release area.
View: Southwest

Date & Time: Thu, Oct 19, 2023 at 13:01:05 MDT
Position: +032.299431° / -103.913519° (+15.7ft)
Altitude: 3134ft (+10.0ft)
Datum: WGS-84
Azimuth/Bearing: 35° N35° 4293mils True (+14°)
Elevation Angle: -13.1°
Horizon Angle: +00.7°
Zoom: 1.0X
Nash Deep East initial



Photograph 2 Date: 10/19/2023
Description: Site assessment activities, release area.
View: North

Date & Time: Thu, Nov 09, 2023 at 11:00:00 MDT
Position: +032.299431° / -103.913519° (+15.7ft)
Altitude: 3132ft (+10.0ft)
Datum: WGS-84
Azimuth/Bearing: 033° S033° 4000mils True (+12°)
Elevation Angle: -06.6°
Horizon Angle: +00.3°
Zoom: 1.0X
Nash deep east excavation extent



Photograph 3 Date: 11/09/2023
Description: Final excavation extent.
View: North

Date & Time: Thu, Nov 09, 2023 at 11:00:00 MDT
Position: +032.299431° / -103.913519° (+15.7ft)
Altitude: 3128ft (+10.0ft)
Datum: WGS-84
Azimuth/Bearing: 193° S193° 3400mils True (+12°)
Elevation Angle: -10.6°
Horizon Angle: -02.5°
Zoom: 1.0X
Nash deep east excavation extent



Photograph 4 Date: 11/09/2023
Description: Final excavation extent.
View: South



Photographic Log

XTO Energy, Inc

Nash Deep East Battery

Incident Number nAPP2327146621



Photograph 5

Date: 11/9/2023

Description: Final excavation extent.

View: Southwest



Photograph 6

Date: 11/8/2023

Description: Deferral/production equipment area.

View: Southeast



Photograph 7

Date: 11/8/2023

Description: Production equipment and pipelines area.

View: Southwest.



Photograph 8

Date: 11/8/2023

Description: Deferral/production equipment area.

View: North



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: SS01		Date: 11/6/2023	
								Site Name: Nash Deep East Battery			
								Incident Number: NAPP2327146621			
								Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe	
Coordinates: 32.299849, -103.913567								Hole Diameter: 2.5'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	10,236	0.0	N	SS01	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, chloride staining on surface, no odor.			
M	8,013	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.			
M	5,364	0.0	N		2	2					
M	1,478	0.0	N		3	3					
M	240	0.0	N	SS01A	4	4	TD	Total Depth at 4 feet bgs.			
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

							Sample Name: SS02		Date: 11/6/2023	
							Site Name: Nash Deep East Battery			
							Incident Number: NAPP2327146621			
							Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW		Method: Backhoe	
Coordinates: 32.299772, -103.913456							Hole Diameter: 2.5'		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M	>34,000	0.0	N	SS02	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, chloride staining on surface, no odor.		
M	571	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.		
M	<168	0.0	N	SS02A	2	2	TD	Total Depth at 2 feet bgs.		
					3	3				
					4	4				
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				

								Sample Name: SS03		Date: 11/6/2023	
								Site Name: Nash Deep East Battery			
								Incident Number: NAPP2327146621			
								Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe	
Coordinates: 32.299654, -103.913504								Hole Diameter: 2.5'		Total Depth: 2'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	1,579	0.0	N	SS03	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, chloride staining on surface, no odor.			
M	364	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.			
M	<168	0.0	N	SS03A	2	2	TD	Total Depth at 2 feet bgs.			
					3	3					
					4	4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: PH01		Date: 11/8/2023	
								Site Name: Nash Deep East Battery			
								Incident Number: NAPP2327146621			
								Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: CW		Method: Backhoe	
Coordinates: 32.299906, -103.913494								Hole Diameter: 2.5'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<168	0.0	N	PH01	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, no stain, no odor.			
M	<168	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.			
M	<168	0.0	N	PH01A	2	2					
M	<168	0.0	N		3	3					
M	<168	0.0	N	PH01B	4	4					
							TD	Total Depth at 4 feet bgs.			
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

							Sample Name: PH02		Date: 11/9/2023	
							Site Name: Nash Deep East Battery			
							Incident Number: NAPP2327146621			
							Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW		Method: Backhoe	
Coordinates: 32.299280, -103.913520							Hole Diameter: 2.5'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M	<168	0.0	N	PH02	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, no stain, no odor.		
M	<168	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.		
M	<168	0.0	N	PH02A	2	2				
M	<168	0.0	N		3	3				
M	<168	0.0	N	PH02B	4	4				
							TD	Total Depth at 4 feet bgs.		
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				

							Sample Name: PH03		Date: 11/9/2023	
							Site Name: Nash Deep East Battery			
							Incident Number: NAPP2327146621			
							Job Number: 03C1558284			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW		Method: Backhoe	
Coordinates: 32.299211, -103.913596							Hole Diameter: 2.5'		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M	<168	0.0	N	PH03	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, no stain, no odor.		
M	<168	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.		
M	<168	0.0	N	PH03A	2	2				
M	<168	0.0	N		3	3				
M	<168	0.0	N	PH03B	4	4				
							TD	Total Depth at 4 feet bgs.		
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				

							Sample Name: PH04		Date: 11/9/2023		
							Site Name: Nash Deep East Battery				
							Incident Number: NAPP2327146621				
							Job Number: 03C1558284				
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: CW		Method: Backhoe		
Coordinates: 32.299592, -103.913817							Hole Diameter: 2.5'		Total Depth: 4'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water and included a +40% correction factor during all screenings.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<168	0.0	N	PH04	0.5	0	CCHE (fill)	0-1', CALICHE, moist, light brown, compacted caliche fill, no stain, no odor.			
M	<168	0.0	N		1	1	SP	1'-4', SAND, moist, brown-tan, very fine grained, poorly graded, trace caliche flakes, some roots, no odor, no stain.			
M	<168	0.0	N	PH04A	2	2					
M	<168	0.0	N		3	3					
M	<168	0.0	N	PH04B	4	4					
							TD	Total Depth at 4 feet bgs.			
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/25/2023 10:51:19 AM

JOB DESCRIPTION

Nash Deep East Battery
SDG NUMBER 03C1558284

JOB NUMBER

890-5495-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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



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

Client: Ensolum
Project/Site: Nash Deep East Battery

Laboratory Job ID: 890-5495-1
SDG: 03C1558284

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

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

Definitions/Glossary

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

Job ID: 890-5495-1

Laboratory: Eurofins Carlsbad

Narrative**Job Narrative
890-5495-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/19/2023 3:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-5495-1), SS02 (890-5495-2), SS03 (890-5495-3), SS04 (890-5495-4), SS05 (890-5495-5), SS06 (890-5495-6) and SS07 (890-5495-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-65443/2), (LCS 880-65122/1-A) and (LCSD 880-65122/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-5495-1), SS02 (890-5495-2), SS03 (890-5495-3), SS04 (890-5495-4), SS05 (890-5495-5), SS06 (890-5495-6), SS07 (890-5495-7), (CCV 880-65443/20), (CCV 880-65443/33), (CCV 880-65443/51), (LCS 880-65372/1-A), (LCSD 880-65372/2-A), (890-5482-A-1-E) and (880-34568-A-50-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5482-A-1-D MS) and (890-5482-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-65122 and 880-65372 and analytical batch 880-65443 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-65394 and analytical batch 880-65440 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-34703-A-41-C MS) and (880-34703-A-41-D 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 880-65394 and analytical batch 880-65440 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.

Case Narrative

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

Job ID: 890-5495-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-65323 and analytical batch 880-65465 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.

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- 2
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- 5
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- 14

Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

Client Sample ID: SS01

Lab Sample ID: 890-5495-1

Date Collected: 10/19/23 12:55

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 05:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 05:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 05:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/23/23 15:02	10/25/23 05:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 05:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/23/23 15:02	10/25/23 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	230	S1+	70 - 130	10/23/23 15:02	10/25/23 05:24	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/23/23 15:02	10/25/23 05:24	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			10/25/23 05:24	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			10/24/23 14:23	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		10/23/23 16:06	10/24/23 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	10/23/23 16:06	10/24/23 14:23	1
o-Terphenyl	88		70 - 130	10/23/23 16:06	10/24/23 14:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38000		249	mg/Kg			10/23/23 23:15	50

Client Sample ID: SS02

Lab Sample ID: 890-5495-2

Date Collected: 10/19/23 01:00

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 07:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:02	10/25/23 07:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:02	10/25/23 07:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/23/23 15:02	10/25/23 07:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/23/23 15:02	10/25/23 07:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/23/23 15:02	10/25/23 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	238	S1+	70 - 130	10/23/23 15:02	10/25/23 07:08	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

Client Sample ID: SS02

Lab Sample ID: 890-5495-2

Date Collected: 10/19/23 01:00

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	10/23/23 15:02	10/25/23 07:08	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			10/25/23 07:08	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			10/24/23 14:47	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		10/23/23 16:06	10/24/23 14:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 14:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			10/23/23 16:06	10/24/23 14:47	1
o-Terphenyl	87		70 - 130			10/23/23 16:06	10/24/23 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8250	F1	99.6	mg/Kg			10/23/23 23:21	20

Client Sample ID: SS03

Lab Sample ID: 890-5495-3

Date Collected: 10/19/23 01:05

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 07:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 07:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 07:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/23/23 15:02	10/25/23 07:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 07:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/23/23 15:02	10/25/23 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	245	S1+	70 - 130	10/23/23 15:02	10/25/23 07:35	1
1,4-Difluorobenzene (Surr)	83		70 - 130	10/23/23 15:02	10/25/23 07:35	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			10/25/23 07:35	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			10/24/23 15:35	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

Client Sample ID: SS03

Lab Sample ID: 890-5495-3

Date Collected: 10/19/23 01:05

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 15:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 15:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		10/23/23 16:06	10/24/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			10/23/23 16:06	10/24/23 15:35	1
o-Terphenyl	88		70 - 130			10/23/23 16:06	10/24/23 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1890		25.3	mg/Kg			10/23/23 23:41	5

Client Sample ID: SS04

Lab Sample ID: 890-5495-4

Date Collected: 10/19/23 01:20

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 08:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 08:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 08:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		10/23/23 15:02	10/25/23 08:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 08:01	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		10/23/23 15:02	10/25/23 08:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253	S1+	70 - 130			10/23/23 15:02	10/25/23 08:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130			10/23/23 15:02	10/25/23 08:01	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			10/25/23 08:01	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			10/24/23 15:58	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		10/23/23 16:06	10/24/23 15:58	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		10/23/23 16:06	10/24/23 15:58	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		10/23/23 16:06	10/24/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			10/23/23 16:06	10/24/23 15:58	1
o-Terphenyl	88		70 - 130			10/23/23 16:06	10/24/23 15:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

Client Sample ID: SS04

Lab Sample ID: 890-5495-4

Date Collected: 10/19/23 01:20

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		24.9	mg/Kg			10/23/23 23:48	5

Client Sample ID: SS05

Lab Sample ID: 890-5495-5

Date Collected: 10/19/23 01:30

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 08:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 08:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 08:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/23/23 15:02	10/25/23 08:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 08:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/23/23 15:02	10/25/23 08:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	280	S1+	70 - 130			10/23/23 15:02	10/25/23 08:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/23/23 15:02	10/25/23 08:27	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			10/25/23 08:27	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			10/24/23 16:23	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		10/23/23 16:06	10/24/23 16:23	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		10/23/23 16:06	10/24/23 16:23	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		10/23/23 16:06	10/24/23 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			10/23/23 16:06	10/24/23 16:23	1
o-Terphenyl	84		70 - 130			10/23/23 16:06	10/24/23 16:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	204		25.3	mg/Kg			10/24/23 00:08	5

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

Client Sample ID: SS06

Lab Sample ID: 890-5495-6

Date Collected: 10/19/23 01:35

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 08:53	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:02	10/25/23 08:53	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:02	10/25/23 08:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/23/23 15:02	10/25/23 08:53	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/23/23 15:02	10/25/23 08:53	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/23/23 15:02	10/25/23 08:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	280	S1+	70 - 130	10/23/23 15:02	10/25/23 08:53	1
1,4-Difluorobenzene (Surr)	112		70 - 130	10/23/23 15:02	10/25/23 08:53	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			10/25/23 08:53	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			10/24/23 16:47	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		10/23/23 16:06	10/24/23 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 16:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/23/23 16:06	10/24/23 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	10/23/23 16:06	10/24/23 16:47	1
o-Terphenyl	88		70 - 130	10/23/23 16:06	10/24/23 16:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		24.8	mg/Kg			10/24/23 00:15	5

Client Sample ID: SS07

Lab Sample ID: 890-5495-7

Date Collected: 10/19/23 01:40

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .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		10/23/23 15:02	10/25/23 09:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 09:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 09:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/23/23 15:02	10/25/23 09:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/23/23 15:02	10/25/23 09:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/23/23 15:02	10/25/23 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	243	S1+	70 - 130	10/23/23 15:02	10/25/23 09:19	1

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Client Sample Results

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

Client Sample ID: SS07

Lab Sample ID: 890-5495-7

Date Collected: 10/19/23 01:40

Matrix: Solid

Date Received: 10/19/23 15:34

Sample Depth: .5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	10/23/23 15:02	10/25/23 09:19	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			10/25/23 09:19	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			10/24/23 17:10	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		10/23/23 16:06	10/24/23 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/23/23 16:06	10/24/23 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/23/23 16:06	10/24/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			10/23/23 16:06	10/24/23 17:10	1
o-Terphenyl	88		70 - 130			10/23/23 16:06	10/24/23 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8		5.04	mg/Kg			10/24/23 00:21	1

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Surrogate Summary

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

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)
890-5482-A-1-D MS	Matrix Spike	207 S1+	80
890-5482-A-1-E MSD	Matrix Spike Duplicate	171 S1+	76
890-5495-1	SS01	230 S1+	86
890-5495-2	SS02	238 S1+	91
890-5495-3	SS03	245 S1+	83
890-5495-4	SS04	253 S1+	81
890-5495-5	SS05	280 S1+	99
890-5495-6	SS06	280 S1+	112
890-5495-7	SS07	243 S1+	105
LCS 880-65372/1-A	Lab Control Sample	169 S1+	85
LCSD 880-65372/2-A	Lab Control Sample Dup	162 S1+	103
MB 880-65122/5-A	Method Blank	117	79
MB 880-65372/5-A	Method Blank	105	73
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-34703-A-41-C MS	Matrix Spike	71	66 S1-
880-34703-A-41-D MSD	Matrix Spike Duplicate	72	68 S1-
890-5495-1	SS01	79	88
890-5495-2	SS02	77	87
890-5495-3	SS03	77	88
890-5495-4	SS04	77	88
890-5495-5	SS05	74	84
890-5495-6	SS06	78	88
890-5495-7	SS07	78	88
LCS 880-65394/2-A	Lab Control Sample	91	100
LCSD 880-65394/3-A	Lab Control Sample Dup	84	90
MB 880-65394/1-A	Method Blank	112	134 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-65122/5-A
Matrix: Solid
Analysis Batch: 65443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65122

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/19/23 17:51	10/24/23 11:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/19/23 17:51	10/24/23 11:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/19/23 17:51	10/24/23 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/19/23 17:51	10/24/23 11:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/19/23 17:51	10/24/23 11:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/19/23 17:51	10/24/23 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	10/19/23 17:51	10/24/23 11:50	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/19/23 17:51	10/24/23 11:50	1

Lab Sample ID: MB 880-65372/5-A
Matrix: Solid
Analysis Batch: 65443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65372

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 01:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 01:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 01:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/23/23 15:02	10/25/23 01:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/23/23 15:02	10/25/23 01:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/23/23 15:02	10/25/23 01:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/23/23 15:02	10/25/23 01:08	1
1,4-Difluorobenzene (Surr)	73		70 - 130	10/23/23 15:02	10/25/23 01:08	1

Lab Sample ID: LCS 880-65372/1-A
Matrix: Solid
Analysis Batch: 65443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1095		mg/Kg		109	70 - 130
Toluene	0.100	0.1114		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1035		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2057		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-65372/2-A
Matrix: Solid
Analysis Batch: 65443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	4	35

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QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

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

Lab Sample ID: LCSD 880-65372/2-A

Matrix: Solid

Analysis Batch: 65443

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 65372

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits		Limit
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	6	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2077		mg/Kg		104	70 - 130	1	35
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	2	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	162	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-5482-A-1-D MS

Matrix: Solid

Analysis Batch: 65443

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 65372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00199	U	0.100	0.1272		mg/Kg		127	70 - 130	
Toluene	<0.00199	U	0.100	0.1228		mg/Kg		122	70 - 130	
Ethylbenzene	<0.00199	U	0.100	0.1233		mg/Kg		123	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2392		mg/Kg		119	70 - 130	
o-Xylene	<0.00199	U F1	0.100	0.1349	F1	mg/Kg		134	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-5482-A-1-E MSD

Matrix: Solid

Analysis Batch: 65443

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 65372

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

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

Lab Sample ID: MB 880-65394/1-A

Matrix: Solid

Analysis Batch: 65440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 65394

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/23/23 16:06	10/24/23 07:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/23/23 16:06	10/24/23 07:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/23/23 16:06	10/24/23 07:37	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	112		70 - 130	10/23/23 16:06	10/24/23 07:37	1
o-Terphenyl	134	S1+	70 - 130	10/23/23 16:06	10/24/23 07:37	1

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QC Sample Results

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

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

Lab Sample ID: LCS 880-65394/2-A
Matrix: Solid
Analysis Batch: 65440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	902.5		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	898.6		mg/Kg		90	70 - 130		
		LCS %Recovery	LCS Qualifier						
Surrogate				Limits					
1-Chlorooctane		91		70 - 130					
o-Terphenyl		100		70 - 130					

Lab Sample ID: LCSD 880-65394/3-A
Matrix: Solid
Analysis Batch: 65440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65394

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	815.9		mg/Kg		82	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	820.3		mg/Kg		82	70 - 130	9	20
		LCSD %Recovery	LCSD Qualifier						
Surrogate				Limits					
1-Chlorooctane		84		70 - 130					
o-Terphenyl		90		70 - 130					

Lab Sample ID: 880-34703-A-41-C MS
Matrix: Solid
Analysis Batch: 65440

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65394

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	999	600.6	F1	mg/Kg		58	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	595.9	F1	mg/Kg		60	70 - 130		
		MS %Recovery	MS Qualifier								
Surrogate				Limits							
1-Chlorooctane		71		70 - 130							
o-Terphenyl		66	S1-	70 - 130							

Lab Sample ID: 880-34703-A-41-D MSD
Matrix: Solid
Analysis Batch: 65440

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	623.5	F1	mg/Kg		61	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	999	641.9	F1	mg/Kg		64	70 - 130	7	20
		MSD %Recovery	MSD Qualifier								
Surrogate				Limits							
1-Chlorooctane		72		70 - 130							

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QC Sample Results

Client: Ensolum
 Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
 SDG: 03C1558284

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

Lab Sample ID: 880-34703-A-41-D MSD

Matrix: Solid

Analysis Batch: 65440

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 65394

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	68	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-65323/1-A

Matrix: Solid

Analysis Batch: 65465

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			10/23/23 21:28		1

Lab Sample ID: LCS 880-65323/2-A

Matrix: Solid

Analysis Batch: 65465

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-65323/3-A

Matrix: Solid

Analysis Batch: 65465

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	239.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-5495-2 MS

Matrix: Solid

Analysis Batch: 65465

Client Sample ID: SS02

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	8250	F1	4980	12690	F1	mg/Kg		89	90 - 110	

Lab Sample ID: 890-5495-2 MSD

Matrix: Solid

Analysis Batch: 65465

Client Sample ID: SS02

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	8250	F1	4980	12720		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

GC VOA

Prep Batch: 65122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-65122/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 65372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	5035	
890-5495-2	SS02	Total/NA	Solid	5035	
890-5495-3	SS03	Total/NA	Solid	5035	
890-5495-4	SS04	Total/NA	Solid	5035	
890-5495-5	SS05	Total/NA	Solid	5035	
890-5495-6	SS06	Total/NA	Solid	5035	
890-5495-7	SS07	Total/NA	Solid	5035	
MB 880-65372/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-65372/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-65372/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5482-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5482-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 65443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	8021B	65372
890-5495-2	SS02	Total/NA	Solid	8021B	65372
890-5495-3	SS03	Total/NA	Solid	8021B	65372
890-5495-4	SS04	Total/NA	Solid	8021B	65372
890-5495-5	SS05	Total/NA	Solid	8021B	65372
890-5495-6	SS06	Total/NA	Solid	8021B	65372
890-5495-7	SS07	Total/NA	Solid	8021B	65372
MB 880-65122/5-A	Method Blank	Total/NA	Solid	8021B	65122
MB 880-65372/5-A	Method Blank	Total/NA	Solid	8021B	65372
LCS 880-65372/1-A	Lab Control Sample	Total/NA	Solid	8021B	65372
LCSD 880-65372/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	65372
890-5482-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	65372
890-5482-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	65372

Analysis Batch: 65559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	Total BTEX	
890-5495-2	SS02	Total/NA	Solid	Total BTEX	
890-5495-3	SS03	Total/NA	Solid	Total BTEX	
890-5495-4	SS04	Total/NA	Solid	Total BTEX	
890-5495-5	SS05	Total/NA	Solid	Total BTEX	
890-5495-6	SS06	Total/NA	Solid	Total BTEX	
890-5495-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 65394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	8015NM Prep	
890-5495-2	SS02	Total/NA	Solid	8015NM Prep	
890-5495-3	SS03	Total/NA	Solid	8015NM Prep	
890-5495-4	SS04	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

GC Semi VOA (Continued)

Prep Batch: 65394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-5	SS05	Total/NA	Solid	8015NM Prep	
890-5495-6	SS06	Total/NA	Solid	8015NM Prep	
890-5495-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-65394/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-65394/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-65394/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-34703-A-41-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-34703-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 65440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	8015B NM	65394
890-5495-2	SS02	Total/NA	Solid	8015B NM	65394
890-5495-3	SS03	Total/NA	Solid	8015B NM	65394
890-5495-4	SS04	Total/NA	Solid	8015B NM	65394
890-5495-5	SS05	Total/NA	Solid	8015B NM	65394
890-5495-6	SS06	Total/NA	Solid	8015B NM	65394
890-5495-7	SS07	Total/NA	Solid	8015B NM	65394
MB 880-65394/1-A	Method Blank	Total/NA	Solid	8015B NM	65394
LCS 880-65394/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	65394
LCSD 880-65394/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	65394
880-34703-A-41-C MS	Matrix Spike	Total/NA	Solid	8015B NM	65394
880-34703-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	65394

Analysis Batch: 65545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Total/NA	Solid	8015 NM	
890-5495-2	SS02	Total/NA	Solid	8015 NM	
890-5495-3	SS03	Total/NA	Solid	8015 NM	
890-5495-4	SS04	Total/NA	Solid	8015 NM	
890-5495-5	SS05	Total/NA	Solid	8015 NM	
890-5495-6	SS06	Total/NA	Solid	8015 NM	
890-5495-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 65323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Soluble	Solid	DI Leach	
890-5495-2	SS02	Soluble	Solid	DI Leach	
890-5495-3	SS03	Soluble	Solid	DI Leach	
890-5495-4	SS04	Soluble	Solid	DI Leach	
890-5495-5	SS05	Soluble	Solid	DI Leach	
890-5495-6	SS06	Soluble	Solid	DI Leach	
890-5495-7	SS07	Soluble	Solid	DI Leach	
MB 880-65323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5495-2 MS	SS02	Soluble	Solid	DI Leach	
890-5495-2 MSD	SS02	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

HPLC/IC

Analysis Batch: 65465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5495-1	SS01	Soluble	Solid	300.0	65323
890-5495-2	SS02	Soluble	Solid	300.0	65323
890-5495-3	SS03	Soluble	Solid	300.0	65323
890-5495-4	SS04	Soluble	Solid	300.0	65323
890-5495-5	SS05	Soluble	Solid	300.0	65323
890-5495-6	SS06	Soluble	Solid	300.0	65323
890-5495-7	SS07	Soluble	Solid	300.0	65323
MB 880-65323/1-A	Method Blank	Soluble	Solid	300.0	65323
LCS 880-65323/2-A	Lab Control Sample	Soluble	Solid	300.0	65323
LCSD 880-65323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	65323
890-5495-2 MS	SS02	Soluble	Solid	300.0	65323
890-5495-2 MSD	SS02	Soluble	Solid	300.0	65323

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

Client Sample ID: SS01
Date Collected: 10/19/23 12:55
Date Received: 10/19/23 15:34

Lab Sample ID: 890-5495-1
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	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 05:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 14:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 14:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		50			65465	10/23/23 23:15	CH	EET MID

Client Sample ID: SS02
Date Collected: 10/19/23 01:00
Date Received: 10/19/23 15:34

Lab Sample ID: 890-5495-2
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			4.97 g	5 mL	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 07:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 07:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		20			65465	10/23/23 23:21	CH	EET MID

Client Sample ID: SS03
Date Collected: 10/19/23 01:05
Date Received: 10/19/23 15:34

Lab Sample ID: 890-5495-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 15:35	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		5			65465	10/23/23 23:41	CH	EET MID

Client Sample ID: SS04
Date Collected: 10/19/23 01:20
Date Received: 10/19/23 15:34

Lab Sample ID: 890-5495-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 08:01	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East BatteryJob ID: 890-5495-1
SDG: 03C1558284

Client Sample ID: SS04

Lab Sample ID: 890-5495-4

Date Collected: 10/19/23 01:20

Matrix: Solid

Date Received: 10/19/23 15:34

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			65545	10/24/23 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		5			65465	10/23/23 23:48	CH	EET MID

Client Sample ID: SS05

Lab Sample ID: 890-5495-5

Date Collected: 10/19/23 01:30

Matrix: Solid

Date Received: 10/19/23 15:34

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	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 08:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 08:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 16:23	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		5			65465	10/24/23 00:08	CH	EET MID

Client Sample ID: SS06

Lab Sample ID: 890-5495-6

Date Collected: 10/19/23 01:35

Matrix: Solid

Date Received: 10/19/23 15:34

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	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 08:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 08:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 16:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 16:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		5			65465	10/24/23 00:15	CH	EET MID

Client Sample ID: SS07

Lab Sample ID: 890-5495-7

Date Collected: 10/19/23 01:40

Matrix: Solid

Date Received: 10/19/23 15:34

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	65372	10/23/23 15:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	65443	10/25/23 09:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			65559	10/25/23 09:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			65545	10/24/23 17:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	65394	10/23/23 16:06	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	65440	10/24/23 17:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

Client Sample ID: SS07
Date Collected: 10/19/23 01:40
Date Received: 10/19/23 15:34

Lab Sample ID: 890-5495-7
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	65323	10/23/23 09:00	CH	EET MID
Soluble	Analysis	300.0		1			65465	10/24/23 00:21	CH	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Nash Deep East Battery

Job ID: 890-5495-1
SDG: 03C1558284

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: 890-5495-1
SDG: 03C1558284

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: 890-5495-1
SDG: 03C1558284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5495-1	SS01	Solid	10/19/23 12:55	10/19/23 15:34	.5'
890-5495-2	SS02	Solid	10/19/23 01:00	10/19/23 15:34	.5'
890-5495-3	SS03	Solid	10/19/23 01:05	10/19/23 15:34	.5'
890-5495-4	SS04	Solid	10/19/23 01:20	10/19/23 15:34	.5'
890-5495-5	SS05	Solid	10/19/23 01:30	10/19/23 15:34	.5'
890-5495-6	SS06	Solid	10/19/23 01:35	10/19/23 15:34	.5'
890-5495-7	SS07	Solid	10/19/23 01:40	10/19/23 15:34	.5'

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Ben Beill	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	Pres. Code	
Project Number:	03C1558284	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:					
PO #:					
SAMPLE RECEIPT		Temp Blank	☒ Yes ☐ No	Wet Ice	☒ Yes ☐ No
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	T/M007		
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	-0.8		
Total Containers:		Corrected Temperature:			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
S501	S	10/19/23	1255	5'	Gm
S502					
S503					
S504					
S505					
S506					
S507					
ANALYSIS REQUEST					
CHLORIDES (EPA: 3000.0)					
TPH (8015)					
BTEX (8021)					
PRESERVATIVE CODES					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SACP					
Sample Comments					
Incident ID: NAPP2327146621					
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 SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-19 15 34			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5495-1

SDG Number: 03C1558284

Login Number: 5495

List Number: 1

Creator: Bruns, Shannon

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: 890-5495-1

SDG Number: 03C1558284

Login Number: 5495

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 10/23/23 09:18 AM

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 11/17/2023 8:48:28 AM

JOB DESCRIPTION

NASH DEEP EAST BATTERY

03C1558284

JOB NUMBER

890-5575-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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
11/17/2023 8:48:28 AM

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

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Laboratory Job ID: 890-5575-1
SDG: 03C1558284

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	18
QC Sample Results	20
QC Association Summary	26
Lab Chronicle	30
Certification Summary	35
Method Summary	36
Sample Summary	37
Chain of Custody	38
Receipt Checklists	40

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

Definitions/Glossary

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Job ID: 890-5575-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5575-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/7/2023 3:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-5575-1), FS 02 (890-5575-2), FS 03 (890-5575-3), FS 04 (890-5575-4), FS 05 (890-5575-5), FS 06 (890-5575-6), FS 07 (890-5575-7), FS 08 (890-5575-8), FS 09 (890-5575-9), FS 10 (890-5575-10), FS 11 (890-5575-11), SW 01 (890-5575-12), SW 02 (890-5575-13) and SW 03 (890-5575-14).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 05 (890-5575-5), FS 06 (890-5575-6), FS 07 (890-5575-7), FS 08 (890-5575-8), FS 09 (890-5575-9), FS 11 (890-5575-11), SW 01 (890-5575-12), SW 02 (890-5575-13) and SW 03 (890-5575-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS 03 (890-5575-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-66698 and analytical batch 880-66806 recovered outside control limits for the following analytes: Benzene.

Method 8021B: The method blank for preparation batch 880-66698 and analytical batch 880-66806 contained o-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-66717 and analytical batch 880-66782 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 01

Lab Sample ID: 890-5575-1

Date Collected: 11/07/23 09:30

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *1	0.00202	mg/Kg		11/10/23 10:24	11/13/23 20:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/10/23 10:24	11/13/23 20:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/10/23 10:24	11/13/23 20:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/10/23 10:24	11/13/23 20:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/10/23 10:24	11/13/23 20:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/10/23 10:24	11/13/23 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	11/10/23 10:24	11/13/23 20:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130	11/10/23 10:24	11/13/23 20:06	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			11/13/23 20:06	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			11/14/23 00:29	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		11/10/23 13:16	11/14/23 00:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/10/23 13:16	11/14/23 00:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/10/23 13:16	11/14/23 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	11/10/23 13:16	11/14/23 00:29	1
o-Terphenyl	120		70 - 130	11/10/23 13:16	11/14/23 00:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.05	mg/Kg			11/13/23 11:56	1

Client Sample ID: FS 02

Lab Sample ID: 890-5575-2

Date Collected: 11/07/23 09:35

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		11/10/23 10:24	11/13/23 20:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 20:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 20:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/13/23 20:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 20:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/13/23 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/10/23 10:24	11/13/23 20:33	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: FS 02

Lab Sample ID: 890-5575-2

Date Collected: 11/07/23 09:35

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	11/10/23 10:24	11/13/23 20:33	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			11/13/23 20:33	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			11/14/23 00:51	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		11/10/23 13:16	11/14/23 00:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/23 13:16	11/14/23 00:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/23 13:16	11/14/23 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			11/10/23 13:16	11/14/23 00:51	1
o-Terphenyl	112		70 - 130			11/10/23 13:16	11/14/23 00:51	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.5		5.04	mg/Kg			11/13/23 12:16	1

Client Sample ID: FS 03

Lab Sample ID: 890-5575-3

Date Collected: 11/07/23 09:40

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		11/10/23 10:24	11/13/23 20:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 20:59	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 20:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/13/23 20:59	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 20:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/13/23 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	11/10/23 10:24	11/13/23 20:59	1
1,4-Difluorobenzene (Surr)	83		70 - 130	11/10/23 10:24	11/13/23 20:59	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			11/13/23 20:59	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			11/14/23 01:14	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 03

Lab Sample ID: 890-5575-3

Date Collected: 11/07/23 09:40

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		11/10/23 13:16	11/14/23 01:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		11/10/23 13:16	11/14/23 01:14	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/10/23 13:16	11/14/23 01:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			11/10/23 13:16	11/14/23 01:14	1
o-Terphenyl	115		70 - 130			11/10/23 13:16	11/14/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.1		5.05	mg/Kg			11/13/23 12:23	1

Client Sample ID: FS 04

Lab Sample ID: 890-5575-4

Date Collected: 11/07/23 09:45

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *1	0.00198	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/10/23 10:24	11/13/23 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			11/10/23 10:24	11/13/23 21:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130			11/10/23 10:24	11/13/23 21:26	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			11/13/23 21:26	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			11/14/23 01:37	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		11/10/23 13:16	11/14/23 01:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/10/23 13:16	11/14/23 01:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/10/23 13:16	11/14/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			11/10/23 13:16	11/14/23 01:37	1
o-Terphenyl	110		70 - 130			11/10/23 13:16	11/14/23 01:37	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 04

Lab Sample ID: 890-5575-4

Date Collected: 11/07/23 09:45

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.96	mg/Kg			11/13/23 12:30	1

Client Sample ID: FS 05

Lab Sample ID: 890-5575-5

Date Collected: 11/07/23 10:05

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/13/23 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			11/10/23 10:24	11/13/23 21:52	1
1,4-Difluorobenzene (Surr)	83		70 - 130			11/10/23 10:24	11/13/23 21:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/13/23 21:52	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			11/14/23 01:59	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		11/10/23 13:16	11/14/23 01:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		11/10/23 13:16	11/14/23 01:59	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		11/10/23 13:16	11/14/23 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			11/10/23 13:16	11/14/23 01:59	1
o-Terphenyl	107		70 - 130			11/10/23 13:16	11/14/23 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.8		5.03	mg/Kg			11/13/23 12:36	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 06

Lab Sample ID: 890-5575-6

Date Collected: 11/07/23 10:10

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		11/10/23 10:24	11/13/23 22:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 22:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 22:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/13/23 22:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 22:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/13/23 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	11/10/23 10:24	11/13/23 22:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/10/23 10:24	11/13/23 22:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/13/23 22:19	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			11/14/23 02:22	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		11/10/23 13:16	11/14/23 02:22	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/10/23 13:16	11/14/23 02:22	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/10/23 13:16	11/14/23 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/10/23 13:16	11/14/23 02:22	1
o-Terphenyl	103		70 - 130	11/10/23 13:16	11/14/23 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.04	mg/Kg			11/13/23 12:56	1

Client Sample ID: FS 07

Lab Sample ID: 890-5575-7

Date Collected: 11/07/23 10:15

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		11/10/23 10:24	11/13/23 22:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 22:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 22:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/13/23 22:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 22:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/13/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	11/10/23 10:24	11/13/23 22:45	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: FS 07

Lab Sample ID: 890-5575-7

Date Collected: 11/07/23 10:15

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	11/10/23 10:24	11/13/23 22:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/13/23 22:45	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			11/14/23 02:44	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		11/10/23 13:16	11/14/23 02:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/23 13:16	11/14/23 02:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/23 13:16	11/14/23 02:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			11/10/23 13:16	11/14/23 02:44	1
o-Terphenyl	105		70 - 130			11/10/23 13:16	11/14/23 02:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		5.05	mg/Kg			11/13/23 13:03	1

Client Sample ID: FS 08

Lab Sample ID: 890-5575-8

Date Collected: 11/07/23 10:20

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		11/10/23 10:24	11/13/23 23:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 23:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 23:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/10/23 10:24	11/13/23 23:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 23:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/10/23 10:24	11/13/23 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	11/10/23 10:24	11/13/23 23:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/10/23 10:24	11/13/23 23:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/13/23 23:11	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			11/14/23 03:07	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: FS 08

Lab Sample ID: 890-5575-8

Date Collected: 11/07/23 10:20

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/10/23 13:16	11/14/23 03:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/10/23 13:16	11/14/23 03:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/10/23 13:16	11/14/23 03:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			11/10/23 13:16	11/14/23 03:07	1
o-Terphenyl	109		70 - 130			11/10/23 13:16	11/14/23 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.9		5.03	mg/Kg			11/13/23 13:09	1

Client Sample ID: FS 09

Lab Sample ID: 890-5575-9

Date Collected: 11/07/23 11:00

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/13/23 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130			11/10/23 10:24	11/13/23 23:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130			11/10/23 10:24	11/13/23 23:38	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			11/13/23 23:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/14/23 03:30	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		11/10/23 13:16	11/14/23 03:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/23 13:16	11/14/23 03:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/23 13:16	11/14/23 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			11/10/23 13:16	11/14/23 03:30	1
o-Terphenyl	114		70 - 130			11/10/23 13:16	11/14/23 03:30	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: FS 09

Lab Sample ID: 890-5575-9

Date Collected: 11/07/23 11:00

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.04	mg/Kg			11/13/23 13:16	1

Client Sample ID: FS 10

Lab Sample ID: 890-5575-10

Date Collected: 11/07/23 11:05

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/14/23 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/10/23 10:24	11/14/23 00:04	1
1,4-Difluorobenzene (Surr)	74		70 - 130			11/10/23 10:24	11/14/23 00:04	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			11/14/23 00:04	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			11/12/23 12:24	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 F1	49.5	mg/Kg		11/10/23 13:21	11/12/23 12:24	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		11/10/23 13:21	11/12/23 12:24	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		11/10/23 13:21	11/12/23 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			11/10/23 13:21	11/12/23 12:24	1
o-Terphenyl	85		70 - 130			11/10/23 13:21	11/12/23 12:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.04	mg/Kg			11/13/23 13:23	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 11

Lab Sample ID: 890-5575-11

Date Collected: 11/07/23 11:10

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		11/10/23 10:24	11/14/23 01:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 01:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 01:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/14/23 01:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/23 10:24	11/14/23 01:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/23 10:24	11/14/23 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	11/10/23 10:24	11/14/23 01:49	1
1,4-Difluorobenzene (Surr)	75		70 - 130	11/10/23 10:24	11/14/23 01:49	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			11/14/23 01:49	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			11/13/23 12:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/13/23 12:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/13/23 12:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/23 13:21	11/13/23 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	11/10/23 13:21	11/13/23 12:26	1
o-Terphenyl	97		70 - 130	11/10/23 13:21	11/13/23 12:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.4		4.95	mg/Kg			11/13/23 13:29	1

Client Sample ID: SW 01

Lab Sample ID: 890-5575-12

Date Collected: 11/07/23 10:45

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		11/10/23 10:24	11/14/23 02:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 02:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 02:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/14/23 02:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 02:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/23 10:24	11/14/23 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	11/10/23 10:24	11/14/23 02:16	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: SW 01

Lab Sample ID: 890-5575-12

Date Collected: 11/07/23 10:45

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 0-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	80		70 - 130	11/10/23 10:24	11/14/23 02:16	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			11/14/23 02:16	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			11/12/23 16:24	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		11/10/23 13:21	11/12/23 16:24	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 16:24	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			11/10/23 13:21	11/12/23 16:24	1
o-Terphenyl	85		70 - 130			11/10/23 13:21	11/12/23 16:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		5.03	mg/Kg			11/13/23 13:49	1

Client Sample ID: SW 02

Lab Sample ID: 890-5575-13

Date Collected: 11/07/23 10:50

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1	0.00201	mg/Kg		11/10/23 10:24	11/14/23 02:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/14/23 02:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/14/23 02:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/14/23 02:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/10/23 10:24	11/14/23 02:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/10/23 10:24	11/14/23 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	11/10/23 10:24	11/14/23 02:42	1
1,4-Difluorobenzene (Surr)	85		70 - 130	11/10/23 10:24	11/14/23 02:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/23 02:42	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			11/12/23 16:48	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Client Sample ID: SW 02

Lab Sample ID: 890-5575-13

Date Collected: 11/07/23 10:50

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/10/23 13:21	11/12/23 16:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/10/23 13:21	11/12/23 16:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/10/23 13:21	11/12/23 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			11/10/23 13:21	11/12/23 16:48	1
o-Terphenyl	83		70 - 130			11/10/23 13:21	11/12/23 16:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		4.95	mg/Kg			11/13/23 13:56	1

Client Sample ID: SW 03

Lab Sample ID: 890-5575-14

Date Collected: 11/07/23 10:55

Matrix: Solid

Date Received: 11/07/23 15:43

Sample Depth: 0-1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1	0.00200	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/10/23 10:24	11/14/23 03:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			11/10/23 10:24	11/14/23 03:08	1
1,4-Difluorobenzene (Surr)	80		70 - 130			11/10/23 10:24	11/14/23 03:08	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			11/14/23 03:08	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			11/12/23 17:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 17:13	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 17:13	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/10/23 13:21	11/12/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			11/10/23 13:21	11/12/23 17:13	1
o-Terphenyl	85		70 - 130			11/10/23 13:21	11/12/23 17:13	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: SW 03
Date Collected: 11/07/23 10:55
Date Received: 11/07/23 15:43
Sample Depth: 0-1

Lab Sample ID: 890-5575-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.3		5.02	mg/Kg			11/13/23 14:15	1

Surrogate Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

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)
890-5575-1	FS 01	118	80
890-5575-1 MS	FS 01	127	97
890-5575-1 MSD	FS 01	120	83
890-5575-2	FS 02	119	88
890-5575-3	FS 03	131 S1+	83
890-5575-4	FS 04	124	90
890-5575-5	FS 05	147 S1+	83
890-5575-6	FS 06	142 S1+	102
890-5575-7	FS 07	138 S1+	100
890-5575-8	FS 08	167 S1+	96
890-5575-9	FS 09	153 S1+	95
890-5575-10	FS 10	122	74
890-5575-11	FS 11	150 S1+	75
890-5575-12	SW 01	133 S1+	80
890-5575-13	SW 02	133 S1+	85
890-5575-14	SW 03	135 S1+	80
LCS 880-66698/1-A	Lab Control Sample	123	108
LCSD 880-66698/2-A	Lab Control Sample Dup	120	92
MB 880-66698/5-A	Method Blank	73	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35384-A-1-F MS	Matrix Spike	113	114
880-35384-A-1-G MSD	Matrix Spike Duplicate	116	116
890-5575-1	FS 01	109	120
890-5575-2	FS 02	100	112
890-5575-3	FS 03	104	115
890-5575-4	FS 04	100	110
890-5575-5	FS 05	97	107
890-5575-6	FS 06	93	103
890-5575-7	FS 07	95	105
890-5575-8	FS 08	100	109
890-5575-9	FS 09	103	114
890-5575-10	FS 10	80	85
890-5575-10 MS	FS 10	80	73
890-5575-10 MSD	FS 10	78	76
890-5575-11	FS 11	97	97
890-5575-12	SW 01	80	85
890-5575-13	SW 02	77	83
890-5575-14	SW 03	80	85
LCS 880-66716/2-A	Lab Control Sample	107	125
LCS 880-66717/2-A	Lab Control Sample	104	120

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Surrogate Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

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)
LCSD 880-66716/3-A	Lab Control Sample Dup	76	88
LCSD 880-66717/3-A	Lab Control Sample Dup	99	104
MB 880-66716/1-A	Method Blank	112	127
MB 880-66717/1-A	Method Blank	81	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66698/5-A

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66698

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 19:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/10/23 10:24	11/13/23 19:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/23 10:24	11/13/23 19:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/10/23 10:24	11/13/23 19:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	11/10/23 10:24	11/13/23 19:40	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/10/23 10:24	11/13/23 19:40	1

Lab Sample ID: LCS 880-66698/1-A

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1232		mg/Kg		123	70 - 130
Toluene	0.100	0.1228		mg/Kg		123	70 - 130
Ethylbenzene	0.100	0.1223		mg/Kg		122	70 - 130
m-Xylene & p-Xylene	0.200	0.2380		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1225		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-66698/2-A

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08589	*1	mg/Kg		86	70 - 130	36	35
Toluene	0.100	0.1058		mg/Kg		106	70 - 130	15	35
Ethylbenzene	0.100	0.1034		mg/Kg		103	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	20	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-5575-1 MS

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *1	0.0996	0.08424		mg/Kg		85	70 - 130
Toluene	<0.00202	U	0.0996	0.09816		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

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

Lab Sample ID: 890-5575-1 MS

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0996	0.06990		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1645		mg/Kg		83	70 - 130
o-Xylene	<0.00202	U	0.0996	0.08029		mg/Kg		81	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	127		70 - 130						
1,4-Difluorobenzene (Surr)	97		70 - 130						

Lab Sample ID: 890-5575-1 MSD

Matrix: Solid

Analysis Batch: 66806

Client Sample ID: FS 01

Prep Type: Total/NA

Prep Batch: 66698

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *1	0.0990	0.07846		mg/Kg		79	70 - 130	7	35
Toluene	<0.00202	U	0.0990	0.07819		mg/Kg		79	70 - 130	23	35
Ethylbenzene	<0.00202	U	0.0990	0.07284		mg/Kg		74	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1381		mg/Kg		70	70 - 130	17	35
o-Xylene	<0.00202	U	0.0990	0.07118		mg/Kg		72	70 - 130	12	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	120		70 - 130								
1,4-Difluorobenzene (Surr)	83		70 - 130								

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

Lab Sample ID: MB 880-66716/1-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66716

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		11/10/23 13:16	11/13/23 22:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/23 13:16	11/13/23 22:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/23 13:16	11/13/23 22:12	1
Surrogate	%Recovery	MB Qualifier	MB Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			11/10/23 13:16	11/13/23 22:12	1
o-Terphenyl	127		70 - 130			11/10/23 13:16	11/13/23 22:12	1

Lab Sample ID: LCS 880-66716/2-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.3		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	983.0		mg/Kg		98	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

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

Lab Sample ID: LCS 880-66716/2-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66716

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-66716/3-A

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	833.1		mg/Kg		83	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	844.4		mg/Kg		84	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-35384-A-1-F MS

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	1036		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1085		mg/Kg		104	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 880-35384-A-1-G MSD

Matrix: Solid

Analysis Batch: 66797

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66716

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	1000	1133		mg/Kg		111	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1110		mg/Kg		106	70 - 130	2	20

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

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

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

Lab Sample ID: MB 880-66717/1-A

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66717

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/23 13:21	11/12/23 08:51	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	81		70 - 130			11/10/23 13:21	11/12/23 08:51	1
o-Terphenyl	90		70 - 130			11/10/23 13:21	11/12/23 08:51	1

Lab Sample ID: LCS 880-66717/2-A

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	970.4		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		104	70 - 130	
Surrogate	LCS	LCS	Limits					
	%Recovery	Qualifier						
1-Chlorooctane	104		70 - 130					
o-Terphenyl	120		70 - 130					

Lab Sample ID: LCSD 880-66717/3-A

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	988.9		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130	2	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	99		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 890-5575-10 MS

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: FS 10

Prep Type: Total/NA

Prep Batch: 66717

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1	1010	709.0		mg/Kg		70	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	767.7		mg/Kg		74	70 - 130	

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QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

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

Lab Sample ID: 890-5575-10 MS

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: FS 10

Prep Type: Total/NA

Prep Batch: 66717

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 890-5575-10 MSD

Matrix: Solid

Analysis Batch: 66782

Client Sample ID: FS 10

Prep Type: Total/NA

Prep Batch: 66717

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	<49.5	U F1	1010	692.9	F1	mg/Kg		69	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.5	U	1010	786.4		mg/Kg		76	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	76		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66669/1-A

Matrix: Solid

Analysis Batch: 66812

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			11/13/23 11:37	1

Lab Sample ID: LCS 880-66669/2-A

Matrix: Solid

Analysis Batch: 66812

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.4		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-66669/3-A

Matrix: Solid

Analysis Batch: 66812

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	249.6		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-5575-1 MS

Matrix: Solid

Analysis Batch: 66812

Client Sample ID: FS 01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	108		253	347.6		mg/Kg		95	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5575-1 MSD
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: FS 01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	108		253	347.3		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-5575-11 MS
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: FS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.4		248	275.7		mg/Kg		96	90 - 110		

Lab Sample ID: 890-5575-11 MSD
Matrix: Solid
Analysis Batch: 66812

Client Sample ID: FS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.4		248	277.8		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

GC VOA

Prep Batch: 66698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	5035	
890-5575-2	FS 02	Total/NA	Solid	5035	
890-5575-3	FS 03	Total/NA	Solid	5035	
890-5575-4	FS 04	Total/NA	Solid	5035	
890-5575-5	FS 05	Total/NA	Solid	5035	
890-5575-6	FS 06	Total/NA	Solid	5035	
890-5575-7	FS 07	Total/NA	Solid	5035	
890-5575-8	FS 08	Total/NA	Solid	5035	
890-5575-9	FS 09	Total/NA	Solid	5035	
890-5575-10	FS 10	Total/NA	Solid	5035	
890-5575-11	FS 11	Total/NA	Solid	5035	
890-5575-12	SW 01	Total/NA	Solid	5035	
890-5575-13	SW 02	Total/NA	Solid	5035	
890-5575-14	SW 03	Total/NA	Solid	5035	
MB 880-66698/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66698/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66698/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5575-1 MS	FS 01	Total/NA	Solid	5035	
890-5575-1 MSD	FS 01	Total/NA	Solid	5035	

Analysis Batch: 66806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	8021B	66698
890-5575-2	FS 02	Total/NA	Solid	8021B	66698
890-5575-3	FS 03	Total/NA	Solid	8021B	66698
890-5575-4	FS 04	Total/NA	Solid	8021B	66698
890-5575-5	FS 05	Total/NA	Solid	8021B	66698
890-5575-6	FS 06	Total/NA	Solid	8021B	66698
890-5575-7	FS 07	Total/NA	Solid	8021B	66698
890-5575-8	FS 08	Total/NA	Solid	8021B	66698
890-5575-9	FS 09	Total/NA	Solid	8021B	66698
890-5575-10	FS 10	Total/NA	Solid	8021B	66698
890-5575-11	FS 11	Total/NA	Solid	8021B	66698
890-5575-12	SW 01	Total/NA	Solid	8021B	66698
890-5575-13	SW 02	Total/NA	Solid	8021B	66698
890-5575-14	SW 03	Total/NA	Solid	8021B	66698
MB 880-66698/5-A	Method Blank	Total/NA	Solid	8021B	66698
LCS 880-66698/1-A	Lab Control Sample	Total/NA	Solid	8021B	66698
LCSD 880-66698/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66698
890-5575-1 MS	FS 01	Total/NA	Solid	8021B	66698
890-5575-1 MSD	FS 01	Total/NA	Solid	8021B	66698

Analysis Batch: 67126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	Total BTEX	
890-5575-2	FS 02	Total/NA	Solid	Total BTEX	
890-5575-3	FS 03	Total/NA	Solid	Total BTEX	
890-5575-4	FS 04	Total/NA	Solid	Total BTEX	
890-5575-5	FS 05	Total/NA	Solid	Total BTEX	
890-5575-6	FS 06	Total/NA	Solid	Total BTEX	
890-5575-7	FS 07	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

GC VOA (Continued)

Analysis Batch: 67126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-8	FS 08	Total/NA	Solid	Total BTEX	
890-5575-9	FS 09	Total/NA	Solid	Total BTEX	
890-5575-10	FS 10	Total/NA	Solid	Total BTEX	
890-5575-11	FS 11	Total/NA	Solid	Total BTEX	
890-5575-12	SW 01	Total/NA	Solid	Total BTEX	
890-5575-13	SW 02	Total/NA	Solid	Total BTEX	
890-5575-14	SW 03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 66716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	8015NM Prep	
890-5575-2	FS 02	Total/NA	Solid	8015NM Prep	
890-5575-3	FS 03	Total/NA	Solid	8015NM Prep	
890-5575-4	FS 04	Total/NA	Solid	8015NM Prep	
890-5575-5	FS 05	Total/NA	Solid	8015NM Prep	
890-5575-6	FS 06	Total/NA	Solid	8015NM Prep	
890-5575-7	FS 07	Total/NA	Solid	8015NM Prep	
890-5575-8	FS 08	Total/NA	Solid	8015NM Prep	
890-5575-9	FS 09	Total/NA	Solid	8015NM Prep	
MB 880-66716/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66716/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35384-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-35384-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 66717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-10	FS 10	Total/NA	Solid	8015NM Prep	
890-5575-11	FS 11	Total/NA	Solid	8015NM Prep	
890-5575-12	SW 01	Total/NA	Solid	8015NM Prep	
890-5575-13	SW 02	Total/NA	Solid	8015NM Prep	
890-5575-14	SW 03	Total/NA	Solid	8015NM Prep	
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5575-10 MS	FS 10	Total/NA	Solid	8015NM Prep	
890-5575-10 MSD	FS 10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 66782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-10	FS 10	Total/NA	Solid	8015B NM	66717
890-5575-11	FS 11	Total/NA	Solid	8015B NM	66717
890-5575-12	SW 01	Total/NA	Solid	8015B NM	66717
890-5575-13	SW 02	Total/NA	Solid	8015B NM	66717
890-5575-14	SW 03	Total/NA	Solid	8015B NM	66717
MB 880-66717/1-A	Method Blank	Total/NA	Solid	8015B NM	66717
LCS 880-66717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66717
LCSD 880-66717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66717
890-5575-10 MS	FS 10	Total/NA	Solid	8015B NM	66717

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QC Association Summary

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
 SDG: 03C1558284

GC Semi VOA (Continued)

Analysis Batch: 66782 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-10 MSD	FS 10	Total/NA	Solid	8015B NM	66717

Analysis Batch: 66797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	8015B NM	66716
890-5575-2	FS 02	Total/NA	Solid	8015B NM	66716
890-5575-3	FS 03	Total/NA	Solid	8015B NM	66716
890-5575-4	FS 04	Total/NA	Solid	8015B NM	66716
890-5575-5	FS 05	Total/NA	Solid	8015B NM	66716
890-5575-6	FS 06	Total/NA	Solid	8015B NM	66716
890-5575-7	FS 07	Total/NA	Solid	8015B NM	66716
890-5575-8	FS 08	Total/NA	Solid	8015B NM	66716
890-5575-9	FS 09	Total/NA	Solid	8015B NM	66716
MB 880-66716/1-A	Method Blank	Total/NA	Solid	8015B NM	66716
LCS 880-66716/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	66716
LCSD 880-66716/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	66716
880-35384-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	66716
880-35384-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	66716

Analysis Batch: 66891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Total/NA	Solid	8015 NM	
890-5575-2	FS 02	Total/NA	Solid	8015 NM	
890-5575-3	FS 03	Total/NA	Solid	8015 NM	
890-5575-4	FS 04	Total/NA	Solid	8015 NM	
890-5575-5	FS 05	Total/NA	Solid	8015 NM	
890-5575-6	FS 06	Total/NA	Solid	8015 NM	
890-5575-7	FS 07	Total/NA	Solid	8015 NM	
890-5575-8	FS 08	Total/NA	Solid	8015 NM	
890-5575-9	FS 09	Total/NA	Solid	8015 NM	
890-5575-10	FS 10	Total/NA	Solid	8015 NM	
890-5575-11	FS 11	Total/NA	Solid	8015 NM	
890-5575-12	SW 01	Total/NA	Solid	8015 NM	
890-5575-13	SW 02	Total/NA	Solid	8015 NM	
890-5575-14	SW 03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Soluble	Solid	DI Leach	
890-5575-2	FS 02	Soluble	Solid	DI Leach	
890-5575-3	FS 03	Soluble	Solid	DI Leach	
890-5575-4	FS 04	Soluble	Solid	DI Leach	
890-5575-5	FS 05	Soluble	Solid	DI Leach	
890-5575-6	FS 06	Soluble	Solid	DI Leach	
890-5575-7	FS 07	Soluble	Solid	DI Leach	
890-5575-8	FS 08	Soluble	Solid	DI Leach	
890-5575-9	FS 09	Soluble	Solid	DI Leach	
890-5575-10	FS 10	Soluble	Solid	DI Leach	
890-5575-11	FS 11	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5575-1
SDG: 03C1558284

HPLC/IC (Continued)

Leach Batch: 66669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-12	SW 01	Soluble	Solid	DI Leach	
890-5575-13	SW 02	Soluble	Solid	DI Leach	
890-5575-14	SW 03	Soluble	Solid	DI Leach	
MB 880-66669/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66669/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66669/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5575-1 MS	FS 01	Soluble	Solid	DI Leach	
890-5575-1 MSD	FS 01	Soluble	Solid	DI Leach	
890-5575-11 MS	FS 11	Soluble	Solid	DI Leach	
890-5575-11 MSD	FS 11	Soluble	Solid	DI Leach	

Analysis Batch: 66812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5575-1	FS 01	Soluble	Solid	300.0	66669
890-5575-2	FS 02	Soluble	Solid	300.0	66669
890-5575-3	FS 03	Soluble	Solid	300.0	66669
890-5575-4	FS 04	Soluble	Solid	300.0	66669
890-5575-5	FS 05	Soluble	Solid	300.0	66669
890-5575-6	FS 06	Soluble	Solid	300.0	66669
890-5575-7	FS 07	Soluble	Solid	300.0	66669
890-5575-8	FS 08	Soluble	Solid	300.0	66669
890-5575-9	FS 09	Soluble	Solid	300.0	66669
890-5575-10	FS 10	Soluble	Solid	300.0	66669
890-5575-11	FS 11	Soluble	Solid	300.0	66669
890-5575-12	SW 01	Soluble	Solid	300.0	66669
890-5575-13	SW 02	Soluble	Solid	300.0	66669
890-5575-14	SW 03	Soluble	Solid	300.0	66669
MB 880-66669/1-A	Method Blank	Soluble	Solid	300.0	66669
LCS 880-66669/2-A	Lab Control Sample	Soluble	Solid	300.0	66669
LCSD 880-66669/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66669
890-5575-1 MS	FS 01	Soluble	Solid	300.0	66669
890-5575-1 MSD	FS 01	Soluble	Solid	300.0	66669
890-5575-11 MS	FS 11	Soluble	Solid	300.0	66669
890-5575-11 MSD	FS 11	Soluble	Solid	300.0	66669

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 01
Date Collected: 11/07/23 09:30
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-1
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			4.96 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 20:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 00:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 00:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 11:56	CH	EET MID

Client Sample ID: FS 02
Date Collected: 11/07/23 09:35
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 20:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 20:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 00:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 00:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 12:16	CH	EET MID

Client Sample ID: FS 03
Date Collected: 11/07/23 09:40
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 20:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 20:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 12:23	CH	EET MID

Client Sample ID: FS 04
Date Collected: 11/07/23 09:45
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-4
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			5.05 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 21:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 21:26	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 04

Lab Sample ID: 890-5575-4

Date Collected: 11/07/23 09:45

Matrix: Solid

Date Received: 11/07/23 15:43

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			66891	11/14/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 12:30	CH	EET MID

Client Sample ID: FS 05

Lab Sample ID: 890-5575-5

Date Collected: 11/07/23 10:05

Matrix: Solid

Date Received: 11/07/23 15:43

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	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 21:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 01:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 12:36	CH	EET MID

Client Sample ID: FS 06

Lab Sample ID: 890-5575-6

Date Collected: 11/07/23 10:10

Matrix: Solid

Date Received: 11/07/23 15:43

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	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 22:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 22:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 12:56	CH	EET MID

Client Sample ID: FS 07

Lab Sample ID: 890-5575-7

Date Collected: 11/07/23 10:15

Matrix: Solid

Date Received: 11/07/23 15:43

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	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 22:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 02:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 02:44	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 07

Date Collected: 11/07/23 10:15

Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-7

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	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:03	CH	EET MID

Client Sample ID: FS 08

Date Collected: 11/07/23 10:20

Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 23:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 23:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 03:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 03:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:09	CH	EET MID

Client Sample ID: FS 09

Date Collected: 11/07/23 11:00

Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-9

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			4.98 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/13/23 23:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/13/23 23:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/14/23 03:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66716	11/10/23 13:16	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66797	11/14/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:16	CH	EET MID

Client Sample ID: FS 10

Date Collected: 11/07/23 11:05

Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 00:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/14/23 00:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/12/23 12:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:23	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: FS 11
Date Collected: 11/07/23 11:10
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-11
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			5.03 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/14/23 01:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/13/23 12:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/13/23 12:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:29	CH	EET MID

Client Sample ID: SW 01
Date Collected: 11/07/23 10:45
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-12
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			5.01 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 02:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/14/23 02:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/12/23 16:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 16:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:49	CH	EET MID

Client Sample ID: SW 02
Date Collected: 11/07/23 10:50
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-13
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			4.97 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 02:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/14/23 02:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			66891	11/12/23 16:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 16:48	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 13:56	CH	EET MID

Client Sample ID: SW 03
Date Collected: 11/07/23 10:55
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-14
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			4.99 g	5 mL	66698	11/10/23 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66806	11/14/23 03:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67126	11/14/23 03:08	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5575-1
SDG: 03C1558284

Client Sample ID: SW 03
Date Collected: 11/07/23 10:55
Date Received: 11/07/23 15:43

Lab Sample ID: 890-5575-14
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			66891	11/12/23 17:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	66717	11/10/23 13:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	66782	11/12/23 17:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66669	11/09/23 21:17	SMC	EET MID
Soluble	Analysis	300.0		1			66812	11/13/23 14:15	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: 890-5575-1
SDG: 03C1558284

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: 890-5575-1
SDG: 03C1558284

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: 890-5575-1
SDG: 03C1558284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5575-1	FS 01	Solid	11/07/23 09:30	11/07/23 15:43	2
890-5575-2	FS 02	Solid	11/07/23 09:35	11/07/23 15:43	2
890-5575-3	FS 03	Solid	11/07/23 09:40	11/07/23 15:43	2
890-5575-4	FS 04	Solid	11/07/23 09:45	11/07/23 15:43	2
890-5575-5	FS 05	Solid	11/07/23 10:05	11/07/23 15:43	2
890-5575-6	FS 06	Solid	11/07/23 10:10	11/07/23 15:43	2
890-5575-7	FS 07	Solid	11/07/23 10:15	11/07/23 15:43	1
890-5575-8	FS 08	Solid	11/07/23 10:20	11/07/23 15:43	1
890-5575-9	FS 09	Solid	11/07/23 11:00	11/07/23 15:43	1
890-5575-10	FS 10	Solid	11/07/23 11:05	11/07/23 15:43	1
890-5575-11	FS 11	Solid	11/07/23 11:10	11/07/23 15:43	1
890-5575-12	SW 01	Solid	11/07/23 10:45	11/07/23 15:43	0-2
890-5575-13	SW 02	Solid	11/07/23 10:50	11/07/23 15:43	0-1
890-5575-14	SW 03	Solid	11/07/23 10:55	11/07/23 15:43	0-1



Environment Testing
Xenco

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

5575

Work Order No: _____

Project Manager:	Ben Bejll	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
Project Name:	Nash Deep East Battery	Turn Around	☒ Routine ☐ Rush
Project Number:	03C1558284	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	Thermometer ID:	Yes No	Wet Ice:	Yes No
Samples Received Intact:		Yes No	(N/A)	Correction Factor:	Yes No	0.2	
Cooler Custody Seals:		Yes No	(N/A)	Temperature Reading:	Yes No	3.2	
Sample Custody Seals:		Yes No	(N/A)	Corrected Temperature:	Yes No	3.0	
Total Containers:							

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
FS01	S	11/17/23	930	2	C	1	CHLORIDES (EPA: 3000.0)		None: NO DI Water: H2O
FS02			935	2		1	TPH (8015)		Cool: Cool MeOH: Me
FS03			940	2		1	BTEX (8021)		HCL: HC HNO3: HN
FS04			945	2		1			H2SO4: H2 NaOH: Na
FS05			1005	2		1			H3PO4: HP
FS06			1010	2		1			NaHSO4: NABIS
FS07			1015	1		1			Na2S2O3: NaSO3
FS08			1020	1		1			Zn Acetate+NaOH: Zn
FS09			1100	1		1			NaOH+Ascorbic Acid: SAPC
FS10			1105	1		1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
CHH	CHH	11/17 15:47			



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No: _____

www.xenco.com Page 2 of 2

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

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

Project Name:	Nash Deep East Battery	☒ Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes										
Project Number:	03C1558284	☐ Routine ☐ Rush																		None: NO	DI Water: H ₂ O									
Project Location:		Due Date:																		Cool: Cool	MeOH: Me									
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab. If received by 4:30pm																		HCL: HC	HNO ₃ : HN									
PO #:																				H ₂ SO ₄ : H ₂	NaOH: Na									
SAMPLE RECEIPT				Temp Blank:	Yes	No	Thermometer ID:	Yes	No	Wet Ice:	Yes	No																	H ₃ PO ₄ : HP	
Samples Received Intact:	Yes	No		Correction Factor:	Yes	No																		NaHSO ₄ : NABIS						
Cooler Custody Seals:	Yes	No	N/A	Temperature Reading:	Yes	No	N/A																	Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:	Yes	No	N/A	Corrected Temperature:																	Zn Acetate+NaOH: Zn									
Total Containers:																		NaOH+Ascorbic Acid: SAPC												

Sample Identification							Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	NaOH+Ascorbic Acid, SAPC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
CHS	CHS	11/7 15:49			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5575-1

SDG Number: 03C1558284

Login Number: 5575

List Number: 1

Creator: Bruns, Shannon

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: 890-5575-1

SDG Number: 03C1558284

Login Number: 5575

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/09/23 10:55 AM

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 11/16/2023 12:43:20 PM

JOB DESCRIPTION

NASH DEEP EAST BATTERY

03C1558284

JOB NUMBER

890-5602-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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
11/16/2023 12:43:20 PM

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

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Laboratory Job ID: 890-5602-1
SDG: 03C1558284

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	21
QC Sample Results	23
QC Association Summary	27
Lab Chronicle	32
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41
Receipt Checklists	44

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

Definitions/Glossary

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Job ID: 890-5602-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5602-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS12 (890-5602-1), FS13 (890-5602-2), FS14 (890-5602-3), FS15 (890-5602-4), SW04 (890-5602-5), SW05 (890-5602-6), SW06 (890-5602-7), PH01 (890-5602-8), PH01A (890-5602-9), PH01B (890-5602-10), PH02 (890-5602-11), PH02A (890-5602-12), PH02B (890-5602-13), PH03 (890-5602-14), PH03A (890-5602-15), PH03B (890-5602-16), PH04 (890-5602-17), PH04A (890-5602-18) and PH04B (890-5602-19).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH02 (890-5602-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS13 (890-5602-2), SW04 (890-5602-5), (890-5619-A-1-E), (890-5619-A-1-F MS) and (890-5619-A-1-G 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 and precision for preparation batch 880-67033 and analytical batch 880-67014 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (890-5602-14), PH03A (890-5602-15) and PH03B (890-5602-16). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: FS12

Lab Sample ID: 890-5602-1

Date Collected: 11/08/23 11:15

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 21:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 21:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 21:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 21:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 21:38	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	11/14/23 09:31	11/14/23 21:38	1
1,4-Difluorobenzene (Surr)	87		70 - 130	11/14/23 09:31	11/14/23 21:38	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			11/14/23 21:38	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			11/16/23 01:37	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		11/15/23 09:55	11/16/23 01:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/15/23 09:55	11/16/23 01:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/15/23 09:55	11/16/23 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	11/15/23 09:55	11/16/23 01:37	1
o-Terphenyl	90		70 - 130	11/15/23 09:55	11/16/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		4.98	mg/Kg			11/14/23 08:59	1

Client Sample ID: FS13

Lab Sample ID: 890-5602-2

Date Collected: 11/08/23 11:20

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 14:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 14:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	11/14/23 09:31	11/14/23 14:21	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/14/23 09:31	11/14/23 14:21	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Client Sample ID: FS13

Lab Sample ID: 890-5602-2

Date Collected: 11/08/23 11:20

Matrix: Solid

Date Received: 11/09/23 13:52

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			11/14/23 14:21	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			11/16/23 02:01	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		11/15/23 09:55	11/16/23 02:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/15/23 09:55	11/16/23 02:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/15/23 09:55	11/16/23 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			11/15/23 09:55	11/16/23 02:01	1
o-Terphenyl	119		70 - 130			11/15/23 09:55	11/16/23 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.98	mg/Kg			11/14/23 09:19	1

Client Sample ID: FS14

Lab Sample ID: 890-5602-3

Date Collected: 11/08/23 11:25

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 14:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 14:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 14:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			11/14/23 09:31	11/14/23 14:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/14/23 09:31	11/14/23 14:42	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			11/14/23 14:42	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			11/16/23 02:24	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		11/15/23 09:55	11/16/23 02:24	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/15/23 09:55	11/16/23 02:24	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Client Sample ID: FS14

Lab Sample ID: 890-5602-3

Date Collected: 11/08/23 11:25

Matrix: Solid

Date Received: 11/09/23 13:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/15/23 09:55	11/16/23 02:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			11/15/23 09:55	11/16/23 02:24	1
o-Terphenyl	97		70 - 130			11/15/23 09:55	11/16/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		4.99	mg/Kg			11/14/23 12:57	1

Client Sample ID: FS15

Lab Sample ID: 890-5602-4

Date Collected: 11/08/23 01:45

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 15:02	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:02	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 15:02	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:02	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			11/14/23 09:31	11/14/23 15:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130			11/14/23 09:31	11/14/23 15:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/23 15:02	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			11/16/23 02:48	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		11/15/23 09:55	11/16/23 02:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/15/23 09:55	11/16/23 02:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/15/23 09:55	11/16/23 02:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			11/15/23 09:55	11/16/23 02:48	1
o-Terphenyl	73		70 - 130			11/15/23 09:55	11/16/23 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		5.05	mg/Kg			11/14/23 13:04	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: SW04

Lab Sample ID: 890-5602-5

Date Collected: 11/08/23 11:30

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 15:23	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:23	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 15:23	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 15:23	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/14/23 09:31	11/14/23 15:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/14/23 09:31	11/14/23 15:23	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			11/14/23 15:23	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			11/16/23 03:11	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		11/15/23 09:55	11/16/23 03:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 03:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	11/15/23 09:55	11/16/23 03:11	1
o-Terphenyl	109		70 - 130	11/15/23 09:55	11/16/23 03:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		4.95	mg/Kg			11/14/23 13:10	1

Client Sample ID: SW05

Lab Sample ID: 890-5602-6

Date Collected: 11/08/23 11:45

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 15:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 15:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 15:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 15:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 15:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	11/14/23 09:31	11/14/23 15:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/14/23 09:31	11/14/23 15:44	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: SW05

Lab Sample ID: 890-5602-6

Date Collected: 11/08/23 11:45

Matrix: Solid

Date Received: 11/09/23 13:52

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			11/14/23 15:44	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			11/16/23 03:35	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		11/15/23 09:55	11/16/23 03:35	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		11/15/23 09:55	11/16/23 03:35	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/15/23 09:55	11/16/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			11/15/23 09:55	11/16/23 03:35	1
o-Terphenyl	91		70 - 130			11/15/23 09:55	11/16/23 03:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	702		25.1	mg/Kg			11/14/23 13:30	5

Client Sample ID: SW06

Lab Sample ID: 890-5602-7

Date Collected: 11/08/23 01:50

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 16:04	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/14/23 09:31	11/14/23 16:04	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/14/23 09:31	11/14/23 16:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/14/23 09:31	11/14/23 16:04	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/14/23 09:31	11/14/23 16:04	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/14/23 09:31	11/14/23 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			11/14/23 09:31	11/14/23 16:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130			11/14/23 09:31	11/14/23 16:04	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			11/14/23 16:04	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			11/16/23 03:58	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		11/15/23 09:55	11/16/23 03:58	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		11/15/23 09:55	11/16/23 03:58	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Client Sample ID: SW06

Lab Sample ID: 890-5602-7

Date Collected: 11/08/23 01:50

Matrix: Solid

Date Received: 11/09/23 13:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		11/15/23 09:55	11/16/23 03:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			11/15/23 09:55	11/16/23 03:58	1
o-Terphenyl	86		70 - 130			11/15/23 09:55	11/16/23 03:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.95	mg/Kg			11/14/23 13:37	1

Client Sample ID: PH01

Lab Sample ID: 890-5602-8

Date Collected: 11/08/23 02:45

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 16:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 16:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 16:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 16:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			11/14/23 09:31	11/14/23 16:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/14/23 09:31	11/14/23 16:25	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			11/14/23 16:25	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			11/15/23 23:15	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		11/15/23 09:55	11/15/23 23:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/15/23 09:55	11/15/23 23:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/15/23 09:55	11/15/23 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			11/15/23 09:55	11/15/23 23:15	1
o-Terphenyl	89		70 - 130			11/15/23 09:55	11/15/23 23:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	402		24.9	mg/Kg			11/15/23 10:17	5

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH01A

Lab Sample ID: 890-5602-9

Date Collected: 11/08/23 02:55

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 16:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 16:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 16:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 16:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 16:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/14/23 09:31	11/14/23 16:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130	11/14/23 09:31	11/14/23 16:46	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			11/14/23 16:46	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			11/15/23 23:39	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		11/15/23 09:55	11/15/23 23:39	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		11/15/23 09:55	11/15/23 23:39	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		11/15/23 09:55	11/15/23 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	11/15/23 09:55	11/15/23 23:39	1
o-Terphenyl	89		70 - 130	11/15/23 09:55	11/15/23 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.7		5.02	mg/Kg			11/14/23 13:50	1

Client Sample ID: PH01B

Lab Sample ID: 890-5602-10

Date Collected: 11/08/23 03:05

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 17:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 17:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 17:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 17:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 17:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	11/14/23 09:31	11/14/23 17:06	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/14/23 09:31	11/14/23 17:06	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH01B Lab Sample ID: 890-5602-10
Date Collected: 11/08/23 03:05 Matrix: Solid
Date Received: 11/09/23 13:52

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			11/14/23 17:06	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			11/16/23 00:02	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		11/15/23 09:55	11/16/23 00:02	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		11/15/23 09:55	11/16/23 00:02	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/15/23 09:55	11/16/23 00:02	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	86		70 - 130			11/15/23 09:55	11/16/23 00:02	1	
o-Terphenyl	91		70 - 130			11/15/23 09:55	11/16/23 00:02	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			11/15/23 10:24	1	

Client Sample ID: PH02 Lab Sample ID: 890-5602-11
Date Collected: 11/09/23 08:45 Matrix: Solid
Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 18:32	1	
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 18:32	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 18:32	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 18:32	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 18:32	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 18:32	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130			11/14/23 09:31	11/14/23 18:32	1	
1,4-Difluorobenzene (Surr)	109		70 - 130			11/14/23 09:31	11/14/23 18:32	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			11/14/23 18:32	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0	mg/Kg			11/16/23 00:26	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 00:26	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 00:26	1	

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH02
Date Collected: 11/09/23 08:45
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 00:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			11/15/23 09:55	11/16/23 00:26	1
o-Terphenyl	91		70 - 130			11/15/23 09:55	11/16/23 00:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		5.03	mg/Kg			11/14/23 14:03	1

Client Sample ID: PH02A
Date Collected: 11/09/23 09:05
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 18:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/14/23 09:31	11/14/23 18:53	1
1,4-Difluorobenzene (Surr)	120		70 - 130			11/14/23 09:31	11/14/23 18:53	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			11/14/23 18:53	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			11/16/23 00:50	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		11/15/23 09:55	11/16/23 00:50	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 00:50	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 00:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			11/15/23 09:55	11/16/23 00:50	1
o-Terphenyl	93		70 - 130			11/15/23 09:55	11/16/23 00:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.3		5.03	mg/Kg			11/14/23 14:23	1

Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH02B

Lab Sample ID: 890-5602-13

Date Collected: 11/09/23 09:20

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 19:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	11/14/23 09:31	11/14/23 19:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/14/23 09:31	11/14/23 19:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/23 19:13	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			11/16/23 01:14	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		11/15/23 09:55	11/16/23 01:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 01:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/15/23 09:55	11/16/23 01:14	1
o-Terphenyl	93		70 - 130	11/15/23 09:55	11/16/23 01:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		4.95	mg/Kg			11/14/23 14:30	1

Client Sample ID: PH03

Lab Sample ID: 890-5602-14

Date Collected: 11/09/23 09:25

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 19:34	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:34	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:34	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	11/14/23 09:31	11/14/23 19:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/14/23 09:31	11/14/23 19:34	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH03

Lab Sample ID: 890-5602-14

Date Collected: 11/09/23 09:25

Matrix: Solid

Date Received: 11/09/23 13:52

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			11/14/23 19:34	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			11/16/23 01:37	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		11/15/23 09:55	11/16/23 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	27	S1-	70 - 130			11/15/23 09:55	11/16/23 01:37	1
o-Terphenyl	18	S1-	70 - 130			11/15/23 09:55	11/16/23 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.8		5.01	mg/Kg			11/14/23 17:13	1

Client Sample ID: PH03A

Lab Sample ID: 890-5602-15

Date Collected: 11/09/23 09:35

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 19:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 09:31	11/14/23 19:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 09:31	11/14/23 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			11/14/23 09:31	11/14/23 19:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/14/23 09:31	11/14/23 19:55	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			11/14/23 19:55	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			11/16/23 02:01	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		11/15/23 09:55	11/16/23 02:01	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 02:01	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH03A
Date Collected: 11/09/23 09:35
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/15/23 09:55	11/16/23 02:01	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	34	S1-	70 - 130			11/15/23 09:55	11/16/23 02:01	1	
o-Terphenyl	24	S1-	70 - 130			11/15/23 09:55	11/16/23 02:01	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	16.4		5.05	mg/Kg			11/14/23 17:19	1	

Client Sample ID: PH03B
Date Collected: 11/09/23 09:50
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-16
Matrix: Solid

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		11/14/23 09:31	11/14/23 20:15	1	
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:15	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:15	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 20:15	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:15	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/14/23 09:31	11/14/23 20:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	83		70 - 130			11/14/23 09:31	11/14/23 20:15	1	
1,4-Difluorobenzene (Surr)	104		70 - 130			11/14/23 09:31	11/14/23 20:15	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			11/14/23 20:15	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			11/16/23 02:24	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		11/15/23 09:55	11/16/23 02:24	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 02:24	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/16/23 02:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	21	S1-	70 - 130			11/15/23 09:55	11/16/23 02:24	1	
o-Terphenyl	9	S1-	70 - 130			11/15/23 09:55	11/16/23 02:24	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	14.7		5.00	mg/Kg			11/14/23 17:26	1	

Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH04

Lab Sample ID: 890-5602-17

Date Collected: 11/09/23 10:10

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 20:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 20:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 20:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 20:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 20:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	11/14/23 09:31	11/14/23 20:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130	11/14/23 09:31	11/14/23 20:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/23 20:36	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			11/16/23 02:48	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		11/15/23 09:55	11/16/23 02:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/15/23 09:55	11/16/23 02:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/15/23 09:55	11/16/23 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	11/15/23 09:55	11/16/23 02:48	1
o-Terphenyl	105		70 - 130	11/15/23 09:55	11/16/23 02:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.7		5.02	mg/Kg			11/14/23 17:32	1

Client Sample ID: PH04A

Lab Sample ID: 890-5602-18

Date Collected: 11/09/23 10:20

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 20:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 20:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 20:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/14/23 09:31	11/14/23 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	11/14/23 09:31	11/14/23 20:57	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/14/23 09:31	11/14/23 20:57	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH04A

Lab Sample ID: 890-5602-18

Date Collected: 11/09/23 10:20

Matrix: Solid

Date Received: 11/09/23 13:52

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			11/14/23 20:57	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			11/16/23 03:11	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		11/15/23 09:55	11/16/23 03:11	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		11/15/23 09:55	11/16/23 03:11	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/15/23 09:55	11/16/23 03:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130			11/15/23 09:55	11/16/23 03:11	1
o-Terphenyl	90		70 - 130			11/15/23 09:55	11/16/23 03:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.3		4.99	mg/Kg			11/14/23 17:39	1

Client Sample ID: PH04B

Lab Sample ID: 890-5602-19

Date Collected: 11/09/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 09:31	11/14/23 21:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 21:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 21:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 21:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/14/23 09:31	11/14/23 21:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/14/23 09:31	11/14/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			11/14/23 09:31	11/14/23 21:17	1
1,4-Difluorobenzene (Surr)	73		70 - 130			11/14/23 09:31	11/14/23 21:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/23 21:17	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			11/16/23 03:35	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		11/15/23 09:55	11/16/23 03:35	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		11/15/23 09:55	11/16/23 03:35	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH04B

Lab Sample ID: 890-5602-19

Date Collected: 11/09/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/15/23 09:55	11/16/23 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	11/15/23 09:55	11/16/23 03:35	1
o-Terphenyl	93		70 - 130	11/15/23 09:55	11/16/23 03:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		5.04	mg/Kg			11/14/23 17:46	1

Surrogate Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
890-5602-1	FS12	84	87				
890-5602-1 MS	FS12	107	110				
890-5602-1 MSD	FS12	106	118				
890-5602-2	FS13	92	90				
890-5602-3	FS14	81	98				
890-5602-4	FS15	96	93				
890-5602-5	SW04	96	92				
890-5602-6	SW05	82	106				
890-5602-7	SW06	92	87				
890-5602-8	PH01	77	96				
890-5602-9	PH01A	98	89				
890-5602-10	PH01B	84	98				
890-5602-11	PH02	64 S1-	109				
890-5602-12	PH02A	115	120				
890-5602-13	PH02B	87	100				
890-5602-14	PH03	84	98				
890-5602-15	PH03A	83	99				
890-5602-16	PH03B	83	104				
890-5602-17	PH04	82	104				
890-5602-18	PH04A	87	95				
890-5602-19	PH04B	83	73				
LCS 880-66931/1-A	Lab Control Sample	110	120				
LCSD 880-66931/2-A	Lab Control Sample Dup	116	118				
MB 880-66931/5-A	Method Blank	75	99				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-5602-1	FS12	113	90				
890-5602-2	FS13	145 S1+	119				
890-5602-3	FS14	117	97				
890-5602-4	FS15	93	73				
890-5602-5	SW04	132 S1+	109				
890-5602-6	SW05	114	91				
890-5602-7	SW06	106	86				
890-5602-8	PH01	87	89				
890-5602-9	PH01A	83	89				
890-5602-10	PH01B	86	91				
890-5602-11	PH02	85	91				
890-5602-12	PH02A	89	93				
890-5602-13	PH02B	90	93				
890-5602-14	PH03	27 S1-	18 S1-				
890-5602-15	PH03A	34 S1-	24 S1-				

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Surrogate Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

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)
890-5602-16	PH03B	21 S1-	9 S1-
890-5602-17	PH04	102	105
890-5602-18	PH04A	82	90
890-5602-19	PH04B	87	93
890-5619-A-1-F MS	Matrix Spike	60 S1-	41 S1-
890-5619-A-1-G MSD	Matrix Spike Duplicate	91	65 S1-
LCS 880-67033/2-A	Lab Control Sample	86	85
LCSD 880-67033/3-A	Lab Control Sample Dup	95	101
MB 880-67033/1-A	Method Blank	123	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66931/5-A

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66931

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/14/23 09:31	11/14/23 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 09:31	11/14/23 13:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/14/23 09:31	11/14/23 13:39	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	75		70 - 130	11/14/23 09:31	11/14/23 13:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/14/23 09:31	11/14/23 13:39	1

Lab Sample ID: LCS 880-66931/1-A

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1003		mg/Kg		100	70 - 130
Toluene	0.100	0.08637		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08493		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: LCSD 880-66931/2-A

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66931

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1230		mg/Kg		123	70 - 130	20	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	21	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	28	35
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130	11	35
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130	11	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 890-5602-1 MS

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: FS12

Prep Type: Total/NA

Prep Batch: 66931

Analyte	Sample Sample		Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
Benzene	<0.00199	U	0.0996	0.09150		mg/Kg		92	70 - 130
Toluene	<0.00199	U	0.0996	0.08911		mg/Kg		89	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

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

Lab Sample ID: 890-5602-1 MS

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: FS12

Prep Type: Total/NA

Prep Batch: 66931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09190		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1812		mg/Kg		91	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08530		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-5602-1 MSD

Matrix: Solid

Analysis Batch: 66970

Client Sample ID: FS12

Prep Type: Total/NA

Prep Batch: 66931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09070		mg/Kg		92	70 - 130	1	35
Toluene	<0.00199	U	0.0990	0.08844		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.0990	0.08582		mg/Kg		87	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1755		mg/Kg		89	70 - 130	3	35
o-Xylene	<0.00199	U	0.0990	0.08338		mg/Kg		84	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

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

Lab Sample ID: MB 880-67033/1-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67033

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		11/15/23 09:55	11/15/23 23:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/15/23 23:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:55	11/15/23 23:15	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	11/15/23 09:55	11/15/23 23:15	1
o-Terphenyl	110		70 - 130	11/15/23 09:55	11/15/23 23:15	1

Lab Sample ID: LCS 880-67033/2-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67033

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	995.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	999.6		mg/Kg		100	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

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

Lab Sample ID: LCS 880-67033/2-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67033

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-67033/3-A

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67033

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	928.8		mg/Kg		93	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	920.5		mg/Kg		92	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	101		70 - 130								

Lab Sample ID: 890-5619-A-1-F MS

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67033

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1 F2	1010	649.7	F1	mg/Kg		62	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1010	456.2	F1	mg/Kg		41	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	60	S1-	70 - 130								
o-Terphenyl	41	S1-	70 - 130								

Lab Sample ID: 890-5619-A-1-G MSD

Matrix: Solid

Analysis Batch: 67014

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67033

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	<49.6	U F1 F2	1010	899.4	F2	mg/Kg		87	70 - 130	32	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1010	719.7	F1 F2	mg/Kg		67	70 - 130	45	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	65	S1-	70 - 130								

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QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66792/1-A

Matrix: Solid

Analysis Batch: 66955

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			11/14/23 08:39	1

Lab Sample ID: LCS 880-66792/2-A

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.3		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-66792/3-A

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	248.1		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-5602-1 MS

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	309		249	536.7		mg/Kg		91	90 - 110

Lab Sample ID: 890-5602-1 MSD

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: FS12

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	309		249	543.3		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-5602-11 MS

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	47.3		252	295.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-5602-11 MSD

Matrix: Solid

Analysis Batch: 66955

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	47.3		252	296.2		mg/Kg		99	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

GC VOA

Prep Batch: 66931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	5035	
890-5602-2	FS13	Total/NA	Solid	5035	
890-5602-3	FS14	Total/NA	Solid	5035	
890-5602-4	FS15	Total/NA	Solid	5035	
890-5602-5	SW04	Total/NA	Solid	5035	
890-5602-6	SW05	Total/NA	Solid	5035	
890-5602-7	SW06	Total/NA	Solid	5035	
890-5602-8	PH01	Total/NA	Solid	5035	
890-5602-9	PH01A	Total/NA	Solid	5035	
890-5602-10	PH01B	Total/NA	Solid	5035	
890-5602-11	PH02	Total/NA	Solid	5035	
890-5602-12	PH02A	Total/NA	Solid	5035	
890-5602-13	PH02B	Total/NA	Solid	5035	
890-5602-14	PH03	Total/NA	Solid	5035	
890-5602-15	PH03A	Total/NA	Solid	5035	
890-5602-16	PH03B	Total/NA	Solid	5035	
890-5602-17	PH04	Total/NA	Solid	5035	
890-5602-18	PH04A	Total/NA	Solid	5035	
890-5602-19	PH04B	Total/NA	Solid	5035	
MB 880-66931/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66931/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66931/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5602-1 MS	FS12	Total/NA	Solid	5035	
890-5602-1 MSD	FS12	Total/NA	Solid	5035	

Analysis Batch: 66970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	8021B	66931
890-5602-2	FS13	Total/NA	Solid	8021B	66931
890-5602-3	FS14	Total/NA	Solid	8021B	66931
890-5602-4	FS15	Total/NA	Solid	8021B	66931
890-5602-5	SW04	Total/NA	Solid	8021B	66931
890-5602-6	SW05	Total/NA	Solid	8021B	66931
890-5602-7	SW06	Total/NA	Solid	8021B	66931
890-5602-8	PH01	Total/NA	Solid	8021B	66931
890-5602-9	PH01A	Total/NA	Solid	8021B	66931
890-5602-10	PH01B	Total/NA	Solid	8021B	66931
890-5602-11	PH02	Total/NA	Solid	8021B	66931
890-5602-12	PH02A	Total/NA	Solid	8021B	66931
890-5602-13	PH02B	Total/NA	Solid	8021B	66931
890-5602-14	PH03	Total/NA	Solid	8021B	66931
890-5602-15	PH03A	Total/NA	Solid	8021B	66931
890-5602-16	PH03B	Total/NA	Solid	8021B	66931
890-5602-17	PH04	Total/NA	Solid	8021B	66931
890-5602-18	PH04A	Total/NA	Solid	8021B	66931
890-5602-19	PH04B	Total/NA	Solid	8021B	66931
MB 880-66931/5-A	Method Blank	Total/NA	Solid	8021B	66931
LCS 880-66931/1-A	Lab Control Sample	Total/NA	Solid	8021B	66931
LCSD 880-66931/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66931
890-5602-1 MS	FS12	Total/NA	Solid	8021B	66931
890-5602-1 MSD	FS12	Total/NA	Solid	8021B	66931

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

GC VOA

Analysis Batch: 67138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	Total BTEX	
890-5602-2	FS13	Total/NA	Solid	Total BTEX	
890-5602-3	FS14	Total/NA	Solid	Total BTEX	
890-5602-4	FS15	Total/NA	Solid	Total BTEX	
890-5602-5	SW04	Total/NA	Solid	Total BTEX	
890-5602-6	SW05	Total/NA	Solid	Total BTEX	
890-5602-7	SW06	Total/NA	Solid	Total BTEX	
890-5602-8	PH01	Total/NA	Solid	Total BTEX	
890-5602-9	PH01A	Total/NA	Solid	Total BTEX	
890-5602-10	PH01B	Total/NA	Solid	Total BTEX	
890-5602-11	PH02	Total/NA	Solid	Total BTEX	
890-5602-12	PH02A	Total/NA	Solid	Total BTEX	
890-5602-13	PH02B	Total/NA	Solid	Total BTEX	
890-5602-14	PH03	Total/NA	Solid	Total BTEX	
890-5602-15	PH03A	Total/NA	Solid	Total BTEX	
890-5602-16	PH03B	Total/NA	Solid	Total BTEX	
890-5602-17	PH04	Total/NA	Solid	Total BTEX	
890-5602-18	PH04A	Total/NA	Solid	Total BTEX	
890-5602-19	PH04B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 67014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	8015B NM	67033
890-5602-2	FS13	Total/NA	Solid	8015B NM	67033
890-5602-3	FS14	Total/NA	Solid	8015B NM	67033
890-5602-4	FS15	Total/NA	Solid	8015B NM	67033
890-5602-5	SW04	Total/NA	Solid	8015B NM	67033
890-5602-6	SW05	Total/NA	Solid	8015B NM	67033
890-5602-7	SW06	Total/NA	Solid	8015B NM	67033
MB 880-67033/1-A	Method Blank	Total/NA	Solid	8015B NM	67033
LCS 880-67033/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67033
LCSD 880-67033/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67033
890-5619-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	67033
890-5619-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67033

Analysis Batch: 67016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-8	PH01	Total/NA	Solid	8015B NM	67033
890-5602-9	PH01A	Total/NA	Solid	8015B NM	67033
890-5602-10	PH01B	Total/NA	Solid	8015B NM	67033
890-5602-11	PH02	Total/NA	Solid	8015B NM	67033
890-5602-12	PH02A	Total/NA	Solid	8015B NM	67033
890-5602-13	PH02B	Total/NA	Solid	8015B NM	67033
890-5602-14	PH03	Total/NA	Solid	8015B NM	67033
890-5602-15	PH03A	Total/NA	Solid	8015B NM	67033
890-5602-16	PH03B	Total/NA	Solid	8015B NM	67033
890-5602-17	PH04	Total/NA	Solid	8015B NM	67033
890-5602-18	PH04A	Total/NA	Solid	8015B NM	67033
890-5602-19	PH04B	Total/NA	Solid	8015B NM	67033

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QC Association Summary

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

GC Semi VOA

Prep Batch: 67033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	8015NM Prep	
890-5602-2	FS13	Total/NA	Solid	8015NM Prep	
890-5602-3	FS14	Total/NA	Solid	8015NM Prep	
890-5602-4	FS15	Total/NA	Solid	8015NM Prep	
890-5602-5	SW04	Total/NA	Solid	8015NM Prep	
890-5602-6	SW05	Total/NA	Solid	8015NM Prep	
890-5602-7	SW06	Total/NA	Solid	8015NM Prep	
890-5602-8	PH01	Total/NA	Solid	8015NM Prep	
890-5602-9	PH01A	Total/NA	Solid	8015NM Prep	
890-5602-10	PH01B	Total/NA	Solid	8015NM Prep	
890-5602-11	PH02	Total/NA	Solid	8015NM Prep	
890-5602-12	PH02A	Total/NA	Solid	8015NM Prep	
890-5602-13	PH02B	Total/NA	Solid	8015NM Prep	
890-5602-14	PH03	Total/NA	Solid	8015NM Prep	
890-5602-15	PH03A	Total/NA	Solid	8015NM Prep	
890-5602-16	PH03B	Total/NA	Solid	8015NM Prep	
890-5602-17	PH04	Total/NA	Solid	8015NM Prep	
890-5602-18	PH04A	Total/NA	Solid	8015NM Prep	
890-5602-19	PH04B	Total/NA	Solid	8015NM Prep	
MB 880-67033/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67033/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-67033/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5619-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5619-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Total/NA	Solid	8015 NM	
890-5602-2	FS13	Total/NA	Solid	8015 NM	
890-5602-3	FS14	Total/NA	Solid	8015 NM	
890-5602-4	FS15	Total/NA	Solid	8015 NM	
890-5602-5	SW04	Total/NA	Solid	8015 NM	
890-5602-6	SW05	Total/NA	Solid	8015 NM	
890-5602-7	SW06	Total/NA	Solid	8015 NM	
890-5602-8	PH01	Total/NA	Solid	8015 NM	
890-5602-9	PH01A	Total/NA	Solid	8015 NM	
890-5602-10	PH01B	Total/NA	Solid	8015 NM	
890-5602-11	PH02	Total/NA	Solid	8015 NM	
890-5602-12	PH02A	Total/NA	Solid	8015 NM	
890-5602-13	PH02B	Total/NA	Solid	8015 NM	
890-5602-14	PH03	Total/NA	Solid	8015 NM	
890-5602-15	PH03A	Total/NA	Solid	8015 NM	
890-5602-16	PH03B	Total/NA	Solid	8015 NM	
890-5602-17	PH04	Total/NA	Solid	8015 NM	
890-5602-18	PH04A	Total/NA	Solid	8015 NM	
890-5602-19	PH04B	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

HPLC/IC

Leach Batch: 66792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Soluble	Solid	DI Leach	
890-5602-2	FS13	Soluble	Solid	DI Leach	
890-5602-3	FS14	Soluble	Solid	DI Leach	
890-5602-4	FS15	Soluble	Solid	DI Leach	
890-5602-5	SW04	Soluble	Solid	DI Leach	
890-5602-6	SW05	Soluble	Solid	DI Leach	
890-5602-7	SW06	Soluble	Solid	DI Leach	
890-5602-8	PH01	Soluble	Solid	DI Leach	
890-5602-9	PH01A	Soluble	Solid	DI Leach	
890-5602-10	PH01B	Soluble	Solid	DI Leach	
890-5602-11	PH02	Soluble	Solid	DI Leach	
890-5602-12	PH02A	Soluble	Solid	DI Leach	
890-5602-13	PH02B	Soluble	Solid	DI Leach	
890-5602-14	PH03	Soluble	Solid	DI Leach	
890-5602-15	PH03A	Soluble	Solid	DI Leach	
890-5602-16	PH03B	Soluble	Solid	DI Leach	
890-5602-17	PH04	Soluble	Solid	DI Leach	
890-5602-18	PH04A	Soluble	Solid	DI Leach	
890-5602-19	PH04B	Soluble	Solid	DI Leach	
MB 880-66792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5602-1 MS	FS12	Soluble	Solid	DI Leach	
890-5602-1 MSD	FS12	Soluble	Solid	DI Leach	
890-5602-11 MS	PH02	Soluble	Solid	DI Leach	
890-5602-11 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 66955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1	FS12	Soluble	Solid	300.0	66792
890-5602-2	FS13	Soluble	Solid	300.0	66792
890-5602-3	FS14	Soluble	Solid	300.0	66792
890-5602-4	FS15	Soluble	Solid	300.0	66792
890-5602-5	SW04	Soluble	Solid	300.0	66792
890-5602-6	SW05	Soluble	Solid	300.0	66792
890-5602-7	SW06	Soluble	Solid	300.0	66792
890-5602-8	PH01	Soluble	Solid	300.0	66792
890-5602-9	PH01A	Soluble	Solid	300.0	66792
890-5602-10	PH01B	Soluble	Solid	300.0	66792
890-5602-11	PH02	Soluble	Solid	300.0	66792
890-5602-12	PH02A	Soluble	Solid	300.0	66792
890-5602-13	PH02B	Soluble	Solid	300.0	66792
890-5602-14	PH03	Soluble	Solid	300.0	66792
890-5602-15	PH03A	Soluble	Solid	300.0	66792
890-5602-16	PH03B	Soluble	Solid	300.0	66792
890-5602-17	PH04	Soluble	Solid	300.0	66792
890-5602-18	PH04A	Soluble	Solid	300.0	66792
890-5602-19	PH04B	Soluble	Solid	300.0	66792
MB 880-66792/1-A	Method Blank	Soluble	Solid	300.0	66792
LCS 880-66792/2-A	Lab Control Sample	Soluble	Solid	300.0	66792
LCSD 880-66792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66792

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

HPLC/IC (Continued)

Analysis Batch: 66955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5602-1 MS	FS12	Soluble	Solid	300.0	66792
890-5602-1 MSD	FS12	Soluble	Solid	300.0	66792
890-5602-11 MS	PH02	Soluble	Solid	300.0	66792
890-5602-11 MSD	PH02	Soluble	Solid	300.0	66792

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

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: FS12
Date Collected: 11/08/23 11:15
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 21:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 21:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 08:59	CH	EET MID

Client Sample ID: FS13
Date Collected: 11/08/23 11:20
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 02:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 09:19	CH	EET MID

Client Sample ID: FS14
Date Collected: 11/08/23 11:25
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 12:57	CH	EET MID

Client Sample ID: FS15
Date Collected: 11/08/23 01:45
Date Received: 11/09/23 13:52

Lab Sample ID: 890-5602-4
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			4.97 g	5 mL	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 15:02	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
 SDG: 03C1558284

Client Sample ID: FS15

Lab Sample ID: 890-5602-4

Date Collected: 11/08/23 01:45

Matrix: Solid

Date Received: 11/09/23 13:52

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			67188	11/16/23 02:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 02:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 13:04	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-5602-5

Date Collected: 11/08/23 11:30

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 15:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 15:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 03:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 13:10	CH	EET MID

Client Sample ID: SW05

Lab Sample ID: 890-5602-6

Date Collected: 11/08/23 11:45

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 03:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 03:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		5			66955	11/14/23 13:30	CH	EET MID

Client Sample ID: SW06

Lab Sample ID: 890-5602-7

Date Collected: 11/08/23 01:50

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 16:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 03:58	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67014	11/16/23 03:58	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: SW06

Lab Sample ID: 890-5602-7

Date Collected: 11/08/23 01:50

Matrix: Solid

Date Received: 11/09/23 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 13:37	CH	EET MID

Client Sample ID: PH01

Lab Sample ID: 890-5602-8

Date Collected: 11/08/23 02:45

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/15/23 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/15/23 23:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		5			66955	11/15/23 10:17	CH	EET MID

Client Sample ID: PH01A

Lab Sample ID: 890-5602-9

Date Collected: 11/08/23 02:55

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/15/23 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/15/23 23:39	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 13:50	CH	EET MID

Client Sample ID: PH01B

Lab Sample ID: 890-5602-10

Date Collected: 11/08/23 03:05

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 17:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 00:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 00:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/15/23 10:24	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH02

Lab Sample ID: 890-5602-11

Date Collected: 11/09/23 08:45

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 00:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 00:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 14:03	CH	EET MID

Client Sample ID: PH02A

Lab Sample ID: 890-5602-12

Date Collected: 11/09/23 09:05

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 18:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 18:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 00:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 00:50	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 14:23	CH	EET MID

Client Sample ID: PH02B

Lab Sample ID: 890-5602-13

Date Collected: 11/09/23 09:20

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 01:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 14:30	CH	EET MID

Client Sample ID: PH03

Lab Sample ID: 890-5602-14

Date Collected: 11/09/23 09:25

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 19:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 19:34	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH03

Lab Sample ID: 890-5602-14

Date Collected: 11/09/23 09:25

Matrix: Solid

Date Received: 11/09/23 13:52

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			67188	11/16/23 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 01:37	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:13	CH	EET MID

Client Sample ID: PH03A

Lab Sample ID: 890-5602-15

Date Collected: 11/09/23 09:35

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 19:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 19:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 02:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:19	CH	EET MID

Client Sample ID: PH03B

Lab Sample ID: 890-5602-16

Date Collected: 11/09/23 09:50

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 20:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 20:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:26	CH	EET MID

Client Sample ID: PH04

Lab Sample ID: 890-5602-17

Date Collected: 11/09/23 10:10

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 20:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 20:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 02:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 02:48	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5602-1
SDG: 03C1558284

Client Sample ID: PH04

Lab Sample ID: 890-5602-17

Date Collected: 11/09/23 10:10

Matrix: Solid

Date Received: 11/09/23 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:32	CH	EET MID

Client Sample ID: PH04A

Lab Sample ID: 890-5602-18

Date Collected: 11/09/23 10:20

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 20:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 20:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 03:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:39	CH	EET MID

Client Sample ID: PH04B

Lab Sample ID: 890-5602-19

Date Collected: 11/09/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

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	66931	11/14/23 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66970	11/14/23 21:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67138	11/14/23 21:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			67188	11/16/23 03:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67033	11/15/23 09:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67016	11/16/23 03:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	66792	11/13/23 08:06	CH	EET MID
Soluble	Analysis	300.0		1			66955	11/14/23 17:46	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: 890-5602-1
SDG: 03C1558284

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: 890-5602-1
SDG: 03C1558284

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: 890-5602-1
SDG: 03C1558284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5602-1	FS12	Solid	11/08/23 11:15	11/09/23 13:52
890-5602-2	FS13	Solid	11/08/23 11:20	11/09/23 13:52
890-5602-3	FS14	Solid	11/08/23 11:25	11/09/23 13:52
890-5602-4	FS15	Solid	11/08/23 01:45	11/09/23 13:52
890-5602-5	SW04	Solid	11/08/23 11:30	11/09/23 13:52
890-5602-6	SW05	Solid	11/08/23 11:45	11/09/23 13:52
890-5602-7	SW06	Solid	11/08/23 01:50	11/09/23 13:52
890-5602-8	PH01	Solid	11/08/23 02:45	11/09/23 13:52
890-5602-9	PH01A	Solid	11/08/23 02:55	11/09/23 13:52
890-5602-10	PH01B	Solid	11/08/23 03:05	11/09/23 13:52
890-5602-11	PH02	Solid	11/09/23 08:45	11/09/23 13:52
890-5602-12	PH02A	Solid	11/09/23 09:05	11/09/23 13:52
890-5602-13	PH02B	Solid	11/09/23 09:20	11/09/23 13:52
890-5602-14	PH03	Solid	11/09/23 09:25	11/09/23 13:52
890-5602-15	PH03A	Solid	11/09/23 09:35	11/09/23 13:52
890-5602-16	PH03B	Solid	11/09/23 09:50	11/09/23 13:52
890-5602-17	PH04	Solid	11/09/23 10:10	11/09/23 13:52
890-5602-18	PH04A	Solid	11/09/23 10:20	11/09/23 13:52
890-5602-19	PH04B	Solid	11/09/23 10:30	11/09/23 13:52



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 802-0300
 Midland, TX (432) 704-3440 San Antonio, TX (210) 588-3333
 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1266
 Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199



890-5602 Chain of Custody

www.xenco.com Page 1

1 of 2

Project Manager:	Ben Beill	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: EDO ☐ ADAPT ☐ Other: _____

Project Name:		Nash Deep East Battery		Turn Around		ANALYSIS REQUEST										Preservative Codes			
Project Number:	03C1568284	☒ Routine	☐ Rush	Due Date:												None: NO	DI Water: H ₂ O		
Project Location:	Connor Whitman				TAT starts the day received by the lab, if received by 4:30pm												Cool: Cool	MeOH: Me	
Sampler's Name:																	HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes No	Yes No	Thermometer ID:	Well Ice:	Yes No											H ₃ PO ₄ : HP	
Samples Received intact:		Yes No	Yes No	Correction Factor:														NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes No	Yes No	Temperature Reading:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes No	Yes No	Corrected Temperature:														Zn Acetate+NaOH: Zn	
Total Containers:																		NaOH+Ascorbic Acid: SANC	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont.	Parameters										Sample Comments	
FS12		S	11/8/23	1115	4	C	1	CHLORIDES (EPA: 3000.0)										Incident ID	
FS13				1120	4		1	TPH (8015)										MAPP2327146621	
FS14				1125	4		1	BTX (8021)											
FS15				1145	2		1												
SV04				1130	0-4		1											Cost Center	
SV05				1145	0-4		1											1056641001	
SV06				150	0-2		1											A/E	

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

Notice: Signature of this document at relinquishment of samples constitutes a valid purchase order from client company to Eurortius Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurortius Xencro 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 Eurortius Xencro. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurortius Xencro, 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		12:52 11/92			
3			4		
5			6		



Chain of Custody

Environmental Testing
Houston, TX (281) 240-4200, Dallas, TX (214) 992-0390
Midland, TX (432) 794-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Work Order No:

8910-5652

www.xenco.com Page 2 of 3

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

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

Project Name:	Nash Deep East Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558284	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:					
PO #:					
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:			
Cooler Custody Seals:	Yes No	Correction Factor:			
Sample Custody Seals:	Yes No	Temperature Reading:			
Total Containers:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
PH01	S	11/8/23	2:45	.5	G	1	CHLORIDES (EPA 3000.0)	None, NO DI Water, H ₂ O
PH01A			2:55	.2		1	TPH (8015)	Cool: Cool MeOH Me
PH01B			3:05	.4		1	BTEX (8021)	HCL, HC HNO ₃ , HN
PH02		11/7/23	8:45	.5		1		H ₂ SO ₄ , H ₂
PH02A			9:05	.2		1		H ₃ PO ₄ , HP
PH02B			9:20	.4		1		NaHSO ₄ , NABIS
PH03			9:25	.5		1		Na ₂ S ₂ O ₃ , NaSO ₃
PH03A			9:35	.2		1		Zn Acetate+NaOH Zn
PH03B			9:50	.4		1		NaOH+Ascorbic Acid SAPC
							Sample Comments	
							Incident ID	nAPP2927146621
							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 SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	<i>Obelur</i>	12-5-2 10:59			
1					
3					
5					



Environmental Testing
Xenoco

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0900
Midland, TX (432) 704-8440 San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1286
Hobbs, NM (575) 382-7550 Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

894

Loc: 890
5602

www.xenoco.com Page

Project Manager:	Ben Bellil	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 I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other	

Project Name:	Nash Deep East Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes								
Project Number:	03C1558284	Due Date:	TAT starts the day received by the lab, if received by 4:30pm																			None: NO	DI Water: H ₂ O						
Project Location:	Connor Whitman	Due Date:																				Cool Cool	MeOH Me						
Sampler's Name:	Connor Whitman	Due Date:																				HCL, HC	HNO ₃ HN						
PO #:		Due Date:																				H ₂ SO ₄ H ₂	NaOH Na						
SAMPLE RECEIPT					Temp Blank	Yes	No	Wet Ice:	Yes	No																	H ₃ PO ₄ , HP		
Samples Received Intact:					Yes	No	Thermometer ID:																	NaHSO ₄ , NABIS					
Cooler Custody Seals:					Yes	No	Correction Factor:																	Na ₂ S ₂ O ₃ , NaSO ₃					
Sample Custody Seals:					Yes	No	Temperature Reading:																	Zn Acetate+NaOH Zn					
Total Containers:					Corrected Temperature:																	NaOH+Ascorbic Acid: SAPC							
Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	Parameters																Sample Comments		
					PH ₂	5	11/9/25	10/0	.5	5	1	CHLORIDES (EPA: 3000.0)																Incident ID:	nAPP2327146621
					PH ₂ QA			1020	2		1	TPH (8015)																Cost Center:	1056641001
					PH ₂ Q75			1030	4		1	BTEx (8021)																AFF:	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 2451 / 7470 / 7471

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco 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 Xenoco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>CHS</i>	<i>alulu</i>	12:52 11/9			
3					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5602-1

SDG Number: 03C1558284

Login Number: 5602

List Number: 1

Creator: Lopez, Abraham

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: 890-5602-1

SDG Number: 03C1558284

Login Number: 5602

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/13/23 09:24 AM

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 11/17/2023 1:59:17 PM

JOB DESCRIPTION

NASH DEEP EAST BATTERY

03C1558284

JOB NUMBER

890-5604-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
11/17/2023 1:59:17 PM

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

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Laboratory Job ID: 890-5604-1
SDG: 03C1558284

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

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

Definitions/Glossary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

Job ID: 890-5604-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5604-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01A (890-5604-1), SS02A (890-5604-2) and SS03A (890-5604-3).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-66881 and analytical batch 880-66913 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01A (890-5604-1), SS02A (890-5604-2), (880-35343-A-1-F), (880-35343-A-1-G MS) and (880-35343-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-67028 and analytical batch 880-67152. The associated laboratory control sample (LCS) met acceptance criteria.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
 SDG: 03C1558284

Client Sample ID: SS01A

Lab Sample ID: 890-5604-1

Date Collected: 11/06/23 10:05

Matrix: Solid

Date Received: 11/09/23 13:52

Sample Depth: 4

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		11/14/23 12:00	11/14/23 19:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:01	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 12:00	11/14/23 19:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 12:00	11/14/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/14/23 12:00	11/14/23 19:01	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/14/23 12:00	11/14/23 19:01	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			11/14/23 19:01	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			11/16/23 12:09	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		11/15/23 09:52	11/16/23 12:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		11/15/23 09:52	11/16/23 12:09	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		11/15/23 09:52	11/16/23 12:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	11/15/23 09:52	11/16/23 12:09	1
o-Terphenyl	144	S1+	70 - 130	11/15/23 09:52	11/16/23 12:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	316		5.03	mg/Kg			11/14/23 13:26	1

Client Sample ID: SS02A

Lab Sample ID: 890-5604-2

Date Collected: 11/06/23 10:45

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 12:00	11/14/23 19:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/14/23 12:00	11/14/23 19:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/14/23 12:00	11/14/23 19:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/14/23 12:00	11/14/23 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/14/23 12:00	11/14/23 19:22	1

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Client Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
 SDG: 03C1558284

Client Sample ID: SS02A

Lab Sample ID: 890-5604-2

Date Collected: 11/06/23 10:45

Matrix: Solid

Date Received: 11/09/23 13:52

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	11/14/23 12:00	11/14/23 19:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/23 19:22	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			11/16/23 12:30	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		11/15/23 09:52	11/16/23 12:30	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/15/23 09:52	11/16/23 12:30	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/15/23 09:52	11/16/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			11/15/23 09:52	11/16/23 12:30	1
o-Terphenyl	143	S1+	70 - 130			11/15/23 09:52	11/16/23 12:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		24.8	mg/Kg			11/14/23 13:32	5

Client Sample ID: SS03A

Lab Sample ID: 890-5604-3

Date Collected: 11/06/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

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		11/14/23 12:00	11/14/23 19:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/14/23 12:00	11/14/23 19:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/14/23 12:00	11/14/23 19:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/14/23 12:00	11/14/23 19:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/14/23 12:00	11/14/23 19:42	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/14/23 12:00	11/14/23 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/14/23 12:00	11/14/23 19:42	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/14/23 12:00	11/14/23 19:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/14/23 19:42	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			11/16/23 12:50	1

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Client Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

Client Sample ID: SS03A

Lab Sample ID: 890-5604-3

Date Collected: 11/06/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		11/15/23 09:52	11/16/23 12:50	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		11/15/23 09:52	11/16/23 12:50	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		11/15/23 09:52	11/16/23 12:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			11/15/23 09:52	11/16/23 12:50	1
o-Terphenyl	129		70 - 130			11/15/23 09:52	11/16/23 12:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.9		5.02	mg/Kg			11/14/23 13:38	1

Surrogate Summary

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
 SDG: 03C1558284

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)
880-35641-A-1-B MS	Matrix Spike	115	97
880-35641-A-1-C MSD	Matrix Spike Duplicate	115	104
890-5604-1	SS01A	110	106
890-5604-2	SS02A	113	106
890-5604-3	SS03A	111	112
LCS 880-66881/1-A	Lab Control Sample	95	108
LCSD 880-66881/2-A	Lab Control Sample Dup	111	103
MB 880-66881/5-A	Method Blank	112	135 S1+
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-35343-A-1-G MS	Matrix Spike	2 S1-	0.2 S1-
880-35343-A-1-H MSD	Matrix Spike Duplicate	2 S1-	0.2 S1-
890-5604-1	SS01A	132 S1+	144 S1+
890-5604-2	SS02A	130	143 S1+
890-5604-3	SS03A	119	129
LCS 880-67028/2-A	Lab Control Sample	97	112
LCSD 880-67028/3-A	Lab Control Sample Dup	92	105
MB 880-67028/1-A	Method Blank	109	124
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5604-1
SDG: 03C1558284

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-66881/5-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66881

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/13/23 16:38	11/14/23 11:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/13/23 16:38	11/14/23 11:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/13/23 16:38	11/14/23 11:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/13/23 16:38	11/14/23 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/13/23 16:38	11/14/23 11:12	1
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130	11/13/23 16:38	11/14/23 11:12	1

Lab Sample ID: LCS 880-66881/1-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1140		mg/Kg		114	70 - 130
Toluene	0.100	0.09230		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09192		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1983		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09426		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-66881/2-A

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1145		mg/Kg		114	70 - 130	0	35
Toluene	0.100	0.09680		mg/Kg		97	70 - 130	5	35
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2383		mg/Kg		119	70 - 130	18	35
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-35641-A-1-B MS

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.09459		mg/Kg		95	70 - 130
Toluene	<0.00199	U	0.100	0.09345		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
 SDG: 03C1558284

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

Lab Sample ID: 880-35641-A-1-B MS

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.08736		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2067		mg/Kg		103	70 - 130
o-Xylene	<0.00199	U	0.100	0.1092		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-35641-A-1-C MSD

Matrix: Solid

Analysis Batch: 66913

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 66881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09122		mg/Kg		92	70 - 130	4	35
Toluene	<0.00199	U	0.0990	0.07869		mg/Kg		79	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.0990	0.07880		mg/Kg		80	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1950		mg/Kg		98	70 - 130	6	35
o-Xylene	<0.00199	U	0.0990	0.09467		mg/Kg		95	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-67028/1-A

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67028

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		11/15/23 09:52	11/16/23 07:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/15/23 09:52	11/16/23 07:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/15/23 09:52	11/16/23 07:31	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	11/15/23 09:52	11/16/23 07:31	1
o-Terphenyl	124		70 - 130	11/15/23 09:52	11/16/23 07:31	1

Lab Sample ID: LCS 880-67028/2-A

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	924.3		mg/Kg		92	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

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

Lab Sample ID: LCS 880-67028/2-A

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67028

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-67028/3-A

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67028

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	952.9		mg/Kg		95	70 - 130	3	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-35343-A-1-G MS

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1010	<50.5	U F1	mg/Kg		2	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	<50.5	U F1	mg/Kg		0.3	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	2	S1-	70 - 130
o-Terphenyl	0.2	S1-	70 - 130

Lab Sample ID: 880-35343-A-1-H MSD

Matrix: Solid

Analysis Batch: 67152

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1010	<50.5	U F1	mg/Kg		2	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1010	<50.5	U F1	mg/Kg		-0.2	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	2	S1-	70 - 130
o-Terphenyl	0.2	S1-	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5604-1
SDG: 03C1558284

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66793/1-A

Matrix: Solid

Analysis Batch: 66956

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			11/14/23 12:52	1

Lab Sample ID: LCS 880-66793/2-A

Matrix: Solid

Analysis Batch: 66956

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.1		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-66793/3-A

Matrix: Solid

Analysis Batch: 66956

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: 890-5603-A-2-B MS

Matrix: Solid

Analysis Batch: 66956

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	937		2500	3425		mg/Kg		100	90 - 110

Lab Sample ID: 890-5603-A-2-C MSD

Matrix: Solid

Analysis Batch: 66956

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	937		2500	3478		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 890-5605-A-7-B MS

Matrix: Solid

Analysis Batch: 66956

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	55.7		252	317.7		mg/Kg		104	90 - 110

Lab Sample ID: 890-5605-A-7-C MSD

Matrix: Solid

Analysis Batch: 66956

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	55.7		252	316.9		mg/Kg		104	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5604-1
SDG: 03C1558284

GC VOA

Prep Batch: 66881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	5035	
890-5604-2	SS02A	Total/NA	Solid	5035	
890-5604-3	SS03A	Total/NA	Solid	5035	
MB 880-66881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-66881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-66881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-35641-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-35641-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 66913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	8021B	66881
890-5604-2	SS02A	Total/NA	Solid	8021B	66881
890-5604-3	SS03A	Total/NA	Solid	8021B	66881
MB 880-66881/5-A	Method Blank	Total/NA	Solid	8021B	66881
LCS 880-66881/1-A	Lab Control Sample	Total/NA	Solid	8021B	66881
LCSD 880-66881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	66881
880-35641-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	66881
880-35641-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	66881

Analysis Batch: 67119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	Total BTEX	
890-5604-2	SS02A	Total/NA	Solid	Total BTEX	
890-5604-3	SS03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 67028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	8015NM Prep	
890-5604-2	SS02A	Total/NA	Solid	8015NM Prep	
890-5604-3	SS03A	Total/NA	Solid	8015NM Prep	
MB 880-67028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-67028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-67028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-35343-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-35343-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 67152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	8015B NM	67028
890-5604-2	SS02A	Total/NA	Solid	8015B NM	67028
890-5604-3	SS03A	Total/NA	Solid	8015B NM	67028
MB 880-67028/1-A	Method Blank	Total/NA	Solid	8015B NM	67028
LCS 880-67028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	67028
LCSD 880-67028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	67028
880-35343-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	67028
880-35343-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	67028

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

GC Semi VOA

Analysis Batch: 67308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Total/NA	Solid	8015 NM	
890-5604-2	SS02A	Total/NA	Solid	8015 NM	
890-5604-3	SS03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 66793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Soluble	Solid	DI Leach	
890-5604-2	SS02A	Soluble	Solid	DI Leach	
890-5604-3	SS03A	Soluble	Solid	DI Leach	
MB 880-66793/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-66793/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-66793/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5603-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5603-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-5605-A-7-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5605-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 66956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5604-1	SS01A	Soluble	Solid	300.0	66793
890-5604-2	SS02A	Soluble	Solid	300.0	66793
890-5604-3	SS03A	Soluble	Solid	300.0	66793
MB 880-66793/1-A	Method Blank	Soluble	Solid	300.0	66793
LCS 880-66793/2-A	Lab Control Sample	Soluble	Solid	300.0	66793
LCSD 880-66793/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	66793
890-5603-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	66793
890-5603-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66793
890-5605-A-7-B MS	Matrix Spike	Soluble	Solid	300.0	66793
890-5605-A-7-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	66793

Lab Chronicle

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-5604-1
SDG: 03C1558284

Client Sample ID: SS01A

Lab Sample ID: 890-5604-1

Date Collected: 11/06/23 10:05

Matrix: Solid

Date Received: 11/09/23 13:52

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	66881	11/14/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67119	11/14/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			67308	11/16/23 12:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 12:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	66793	11/13/23 08:07	CH	EET MID
Soluble	Analysis	300.0		1			66956	11/14/23 13:26	CH	EET MID

Client Sample ID: SS02A

Lab Sample ID: 890-5604-2

Date Collected: 11/06/23 10:45

Matrix: Solid

Date Received: 11/09/23 13:52

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	66881	11/14/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67119	11/14/23 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			67308	11/16/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 12:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	66793	11/13/23 08:07	CH	EET MID
Soluble	Analysis	300.0		5			66956	11/14/23 13:32	CH	EET MID

Client Sample ID: SS03A

Lab Sample ID: 890-5604-3

Date Collected: 11/06/23 10:30

Matrix: Solid

Date Received: 11/09/23 13:52

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	66881	11/14/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	66913	11/14/23 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			67119	11/14/23 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			67308	11/16/23 12:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	67028	11/15/23 09:52	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	67152	11/16/23 12:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	66793	11/13/23 08:07	CH	EET MID
Soluble	Analysis	300.0		1			66956	11/14/23 13:38	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

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

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

Method Summary

Client: Ensolum
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-5604-1
SDG: 03C1558284

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: 890-5604-1
SDG: 03C1558284

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5604-1	SS01A	Solid	11/06/23 10:05	11/09/23 13:52	4
890-5604-2	SS02A	Solid	11/06/23 10:45	11/09/23 13:52	2
890-5604-3	SS03A	Solid	11/06/23 10:30	11/09/23 13:52	2

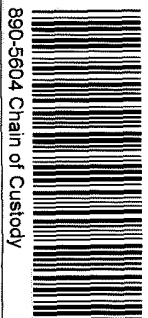
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



5604

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0900
Midland, TX (432) 704-5440, San Antonio, TX (210) 508-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



890-5604 Chain of Custody

www.xenoco.com Page 1 of 1

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

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

Project Name:	Nash Deep East Battery	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558284	Due Date:			
Project Location:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:					
PO #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No	Parameters		
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:			
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	0.6		
Total Containers:		Corrected Temperature:	0.4		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp
SS01A	S	11/6/23	1005	4	6
SS02A	↓		1015	2	6
SS03A	↓		1030	2	6
CHLORIDES (EPA: 3000.0)					
TPH (8015)					
BTX (8021)					
ANALYSIS REQUEST					
PRESERVATIVE CODES					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAFC					
Sample Comments					
Incident ID:					
NAP2327146621					
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 Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TC1P/SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 1 / 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 \$95.00 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)
1 C. H. H.	2 A. B. B.	12:52 11/4	3 A. B. B.
3			4
5			6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5604-1

SDG Number: 03C1558284

Login Number: 5604

List Number: 1

Creator: Bruns, Shannon

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: 890-5604-1

SDG Number: 03C1558284

Login Number: 5604

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 11/13/23 09:24 AM

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



APPENDIX E

NMOCD Notifications

Ben Belill

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, November 2, 2023 6:28 PM
To: Collins, Melanie
Cc: Ben Belill; Green, Garrett J; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] XTO Sampling Notification 11/6/23-11/10/23

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Good afternoon Melanie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Thursday, November 2, 2023 3:59 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Ben Belill <bbelill@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>
Subject: [EXTERNAL] XTO Sampling Notification 11/6/23-11/10/23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

XTO plans to complete final sampling activities at the sites listed below for the week of November 6, 2023, between 8 a.m. and 5 p.m MST.

Thank you,

Site Name	Nash Deep East Battery
Location	P-18-23S-30E; Eddy County, NM

Incident ID	nAPP2327146621
Source & Description of Activities	Sampling
Expected Duration for Activities	3 Days (11.6.23-11.8.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM

Site Name	PLU 29-20 Big Sinks 108H
Location	A-29-25S-31E; Eddy County, NM
Incident ID	nAPP2328644007
Source & Description of Activities	Sampling
Expected Duration for Activities	3 Days (11.7.23-11.9.23)
Env Consultant	Ensolum
Contractor	Tex Mex
Sampling Notification Required	Yes
Surface Owner	BLM

Thank you,
Melanie Collins

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

QUESTIONS

Action 295857

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 295857
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327146621
Incident Name	NAPP2327146621 NASH DEEP EAST TANK BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	NASH DEEP EAST TANK BATTERY
Date Release Discovered	09/19/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 6 BBL Recovered: 3 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Internal corrosion caused a 6" water leg to release fluids to ground.

District I

1625 N. French Dr., Hobbs, NM 88240
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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

QUESTIONS, Page 2

Action 295857

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 295857
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/18/2023
--	--

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

QUESTIONS, Page 3

Action 295857

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	295857
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	702
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/19/2023
On what date will (or did) the final sampling or liner inspection occur	11/08/2023
On what date will (or was) the remediation complete(d)	11/08/2023
What is the estimated surface area (in square feet) that will be reclaimed	4058
What is the estimated volume (in cubic yards) that will be reclaimed	600
What is the estimated surface area (in square feet) that will be remediated	6867
What is the estimated volume (in cubic yards) that will be remediated	960

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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811 S. First St., Artesia, NM 88210
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District III

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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

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QUESTIONS, Page 4

Action 295857

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	295857
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/18/2023
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 295857

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	295857
	Action Type:	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Pipe rack, tank battery containment, below ground lines above ground lines, instrument air equipment, VRU.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	4058
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	600
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Nash Deep East TB [fAPP2126039123]
Enter the well API (30-) on which this deferral should be granted	Not answered.
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 12/18/2023

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QUESTIONS, Page 6

Action 295857

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	295857
Action Type:	
[C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	295891
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/06/2023
What was the (estimated) number of samples that were to be gathered	33
What was the sampling surface area in square feet	6900

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 295857

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 295857
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Request granted per the report indicating impacted surface area of the release has meet the standards of Table I of 19.15.29.12 NMAC and the release has been fully delineated and does not cause an imminent risk to human health, the environment, or ground water. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC when the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	3/19/2024