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	NAPP2318139530
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			-		
Responsible Party					5380
				Contact Te	elephone 575-200-0729
Contact email garre	ett.greei	n@exxonmobil.c	om	Incident #	(assigned by OCD)
Contact mailing ad	ddress 3	104 E. Greene St	reet, Carlsbad, Nev	w Mexico, 88220	
			Location	of Release So	ource
Latitude32.45634	4			Longitude	-104.05469
			(NAD 83 in dec	imal degrees to 5 decim	nal places)
Site Name Big Fa	ddy Uni	it 70 Battery		Site Type	Tank Battery
Date Release Disco		06/23/2023		API# (if appi	
00/25/2025					
Unit Letter Sec	etion	Township Range County		ty	
В 2	26	21S	28E Eddy		y
		s) Released (Select al	Nature and	Volume of F	justification for the volumes provided below)
Crude Oil		Volume Release	d (bbls) 47.68		Volume Recovered (bbls) 47.56
Produced Water	Produced Water Volume Released (bbls)			Volume Recovered (bbls)	
Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?			☐ Yes ☐ No		
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe	;)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
[A failed ontainm ourposes	ient and pad. An	ed water to carry of free fluids were re	over into the oil tan ecovered. A third-p	ks. Oil tanks subsequently overflowed, releasing oil to party contractor has been retained for remediation

Zoho Sign Document ID: 316041F4-F3FOQ JRYAVL4OFUQG2V1AKDF1HNPLHKL79YLSRL254 Received by OCD: 10/20/2023 12:224:23 PM State of New Mexico

Page 2 of 163

Page 2

O

State of New Mexico	
Oil Conservation Division	

Incident ID	NAPP2318139530
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respo	nsible party consider this a major release?
release as defined by	A release equal to or greater than 25 barre	ls.
19.15.29.7(A) NMAC?		
🗴 Yes 🗌 No		
If YES, was immediate ne	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
		er@emnrd.nm.gov, Jocelyn.Harimon@emnrd.nm.gov, and
Robert.Hamlet@emnrd.nr	m.gov on Friday, June 23, 2033 via email.	
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
∡ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
NA		
Per 19.15.29.8 B. (4) NM	[AC the responsible party may commence i	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 containmer	nt area (see 19.15.29.11(A)(5)(a) NMAC), j	please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Corrett C	reen	Title: SSHE Coordinator
Printed Name:	l de l	1 IIIC
Signature:	all Sum	Date:
email: garrett.green@exx	conmobil.com	Telephone: 575-200-0729
OCD Only		
Received by: Shelly Wo	ells	Date: <u>6/30/2023</u>

0.00 bbls

47.56 bbls 0.00 bbls

Location:	Big Eddy Unit 70	
Spill Date:	6/23/2023	
•	Area 1	
Approximate Area =		267.03 cu.ft.
	VOLUME OF LEAK	
Total Crude Oil =		47.56 bbls
Total Produced Water =		0.00 bbls
	Area 2	
Approximate Area =		140.00 sq. ft.
Average Saturation (or dept	n) of spill =	2.00 inches
Average Porosity Factor =		0.03
	VOLUME OF LEAK	
Total Crude Oil =		0.12 bbls
Total Produced Water =		0.00 bbls
	TOTAL VOLUME OF LEAK	
Total Crude Oil =		47.68 bbls

TOTAL VOLUME RECOVERED

Total Produced Water =

Total Produced Water =

Total Crude Oil =

District !
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

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 234919

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	234919
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	By Condition	Condition Date
scwell	s None	6/30/2023

Page 3

Coho Sign Document ID: 316041F4-F3FOO JRYAYL 40FUQG2V1AKDF1HNPLHKL79YLSRL254

State of New Mexico

Oil Conservation Division

	P	age	e 5	of	163
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	1 48000 1
Incident ID	NAPP2318139530
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?	<u>>100</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			

Characterization Report Checklist: Each of the following items must be included in the report.
Character Education Report Checking.
_
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 $\frac{1}{2}$ -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.

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Form C-141
State of New Mexico

Page 6 of 163

Page 4 Oil Conservation Division

	I uge o oj 1
Incident ID	NAPP2318139530
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain rele public health or the environment. The acceptance of a C-141 report failed to adequately investigate and remediate contamination that post	e to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In rator of responsibility for compliance with any other federal, state, or local laws
Printed Name: <u>Garrett Green</u>	Title: _SSHE Coordinator
Signature:	Date: Oct 19 2023
email: <u>garrett.green@exxonmobil.com</u>	Telephone: _575-200-0 <u>729</u>
OCD Only	
Received by: Shelly Wells	Date: <u>10/20/2023</u>

Zoho Sign Document ID: 316041F4-F3F00 IRYAVL40FUQG2V1AKDF1HNPLHKL79YLSRL254
Received by OCD: 10/20/2023 12:24:23 PM
Form C-141 State of New Mexico
Page 5 Oil Conservation Division

Page	7	of	163	
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Incident ID	NAPP2318139530
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	
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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Garrett Green	Title: SSHE Coordinator
Signature: Sum	Date: Oct 19 2023
email: garrett.green@exxonmobil.com	Telephone: <u>575-200-0729</u>
OCD Only	
OCD Only	
Received by: _Shelly Wells	Date: 10/20/2023
Approved Approved with Attached Conditions of A	Approval
Signature:	Date:



October 19, 2023

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

Re: Deferral Request

Big Eddy Unit 70 Battery Incident Number NAPP2318139530 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 Big Eddy Unit 70 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 crude oil. 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 NAPP2318139530 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 26, Township 21 South, Range 28 East, in Eddy County, New Mexico (32.45634°, -104.05469°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On June 23, 2023, a failed water dump caused water to carry over into the crude oil tanks. The crude oil tanks subsequently overflowed resulting in the release of approximately 47.68 barrels (bbls) of crude oil into the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site and recovered approximately 47.56 bbls of released fluids. XTO immediately notified New Mexico Oil Conservation Division (NMOCD) via email on the same day the release occurred and submitted a Release Notification Form C-141 (Form C-141) on June 28, 2023. The release was assigned Incident Number NAPP2318139530.

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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 322632104023001, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc. Deferral Request Big Eddy Unit 70 Battery

approximately 1.2 miles southeast of the Site. The most recent depth to water measurment was 161 feet bgs and the total depth of the well is 241 feet bgs. The Well Record and Log is included in Appendix A. Based on the desktop review, there were two other wells (CP-00633 and CP-00631) that were closer to the Site, but only the well permits were available for review and depth to water data was missing. All wells used for depth to water determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 4,052 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

Based on the closest depth to groundwater data exceeding a distance of 0.5 miles from the Site, as preferred by the NMOCD, 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 July 7, 2023, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Five delineation soil samples (SS01 through SS05) were collected at a depth 0.5 feet bgs. Delineation soil sample SS01 was collected within the release extent and SS02 through SS05 were collected outside of the release extent to define the edge of the release and to ensure the release did not overflow the lined containment in any other areas. 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 and SS03 indicated TPH concentrations exceeded the Closure Criteria. On August 11, 2023, a liner integrity inspection was conducted by XTO personnel and upon inspection, the liner was determined to be insufficient. Based on visible staining in the release area, a failed liner inspection, and laboratory analytical results, additional delineation and excavation of impacted soil appeared warranted.



XTO Energy, Inc. Deferral Request Big Eddy Unit 70 Battery

DELINEATION AND EXCAVATION ACTIVITIES

On August 16 and 17, 2023, Ensolum personnel returned to the Site to oversee delineation and excavation activities. Five potholes (PH01 through PH05) were advanced via backhoe to assess the lateral and vertical definition of the release. Potholes PH01 through PH05 were advanced in the vicinity of delineation soil samples SS01 through SS05, respectively. One borehole (BH01) was advanced by use of hand auger at the location of the tear in the liner identified during the liner integrity inspection. Borehole BH01 and all potholes were advanced to depths ranging from 2 feet to 3 feet bgs. Discrete delineation soil samples were collected from each pothole/borehole at depths ranging from 0.5 feet to 3 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 the borehole and all potholes were logged on a lithologic/soil sampling log, and are included in Appendix C. All delineation soil sample locations are depicted on Figure 2.

Soil outside the containment was excavated to the maximum extent possible (MEP) with a backhoe in the area represented by delineation soil samples SS01/PH01 and SS03/PH03, both of which contained TPH concentrations exceeding the Site Closure Criteria. Following the removal of impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. Excavation floor soil samples FS01 and FS02 were collected at depths ranging from 1-foot to 3 feet bgs and excavation sidewall soil samples SW01 and SW02 were collected at depths ranging from ground surface to 3 feet bgs. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thouroughly mixing. Excavation sidewall soil sample SW02 was collected directly adjacent to the lined containment walls. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site active production equipment. 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.

LABORATORY ANALYTICAL RESULTS AND ADDITIONAL EXCAVATION ACTIVITIES

Laboratory analytical results for excavation floor sample FS01 indicated all COC concentrations were compliant with the Site Closure Criteria. Floor sample FS02 and sidewall sample SW01 contained TPH concentrations exceeding 100 mg/kg. The southern half of the excavation was deepened to 3 feet bgs, and the excavation was laterally extended to the west and south. Subsequent confirmation samples FS02B and SW03 were collected on September 11, 2023 according to the same methods described above. Floor sample FS02A did not meet closure criteria and FS02B was collected of the same material on September 28, 2023. All COC concentrations were compliant with the Site Closure Criteria in the final confirmation samples. The laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included in Appendix D.

The final excavation extent measured approximately 175 square feet. A total of approximately 24 cubic yards of impacted soil was removed during excavation activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

DEFFERAL REQUEST

Due to presence of active production equipment within the lined containment, the remaining impacted soil identified in sidewall soil sample SW02 and borehole soil sample BH01 collected directly beneath the liner at 0.5 feet bgs were not removed. XTO is requesting deferral of final remediation of any impacted soil under the active tank battery. The estimated area of remaining impacted soil measures an area of 813 square feet, and a total of approximately 90 cubic yards of impacted soil remains in place,



XTO Energy, Inc. Deferral Request Big Eddy Unit 70 Battery

assuming a depth of 3 feet bgs based on laboratory analytical results from delineation soil samples. The impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction. The release extent has been vertically delineated by soil samples BH01A collected at 3 feet bgs. The release extent has been laterally delineated by delineation soil samples north and east of the containment and by excavation confirmation samples in the remediated area. The proposed deferral area and all delineation and excavation soil samples used to define the deferral area are depicted on Figure 4.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be greater than 100 feet bgs, nearly all of the release was contained laterally by the lined containment, and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by XTO and will restrict future vertical migration of residual impacts.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2318139530 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, **Ensolum, LLC**

Benjamin J. Belill Project Geologist Ashley L. Ager, MS, PG

ashley L. ager

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

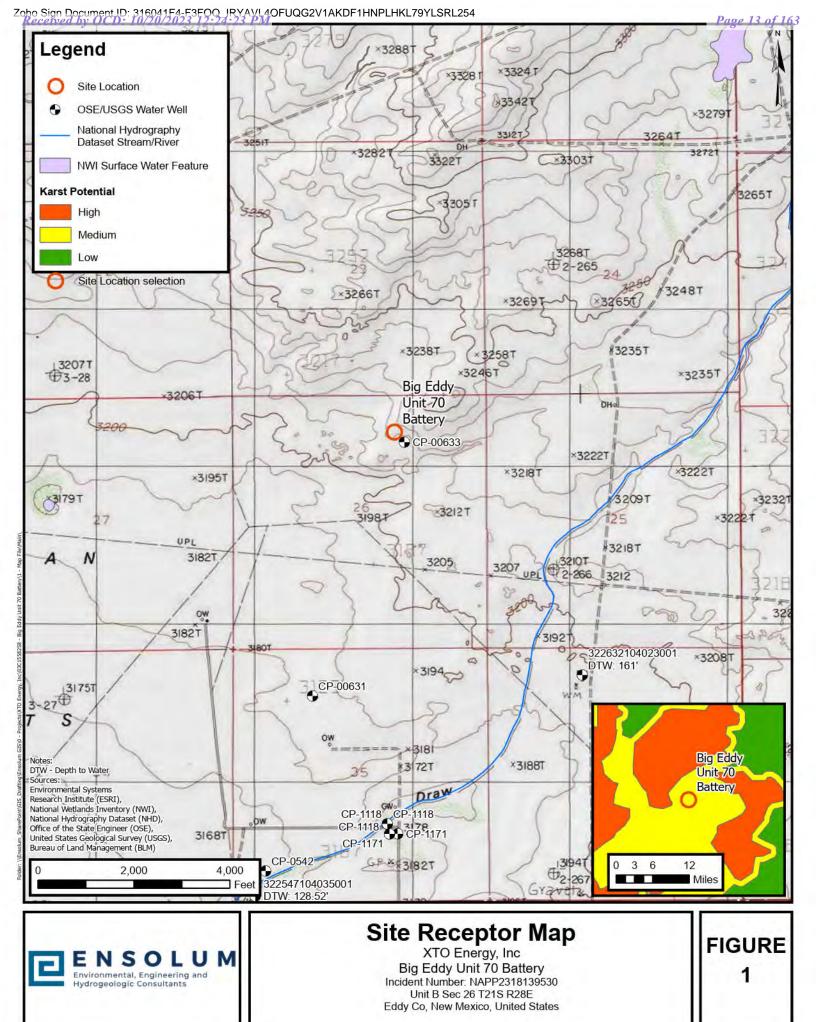
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notifications





FIGURES



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Delineation Soil Sample Locations

XTO Energy, Inc Big Eddy Unit 70 Battery Incident Number: NAPP2318139530 Unit B Sec 26 T21S R28E Eddy Co, New Mexico, United States FIGURE 2

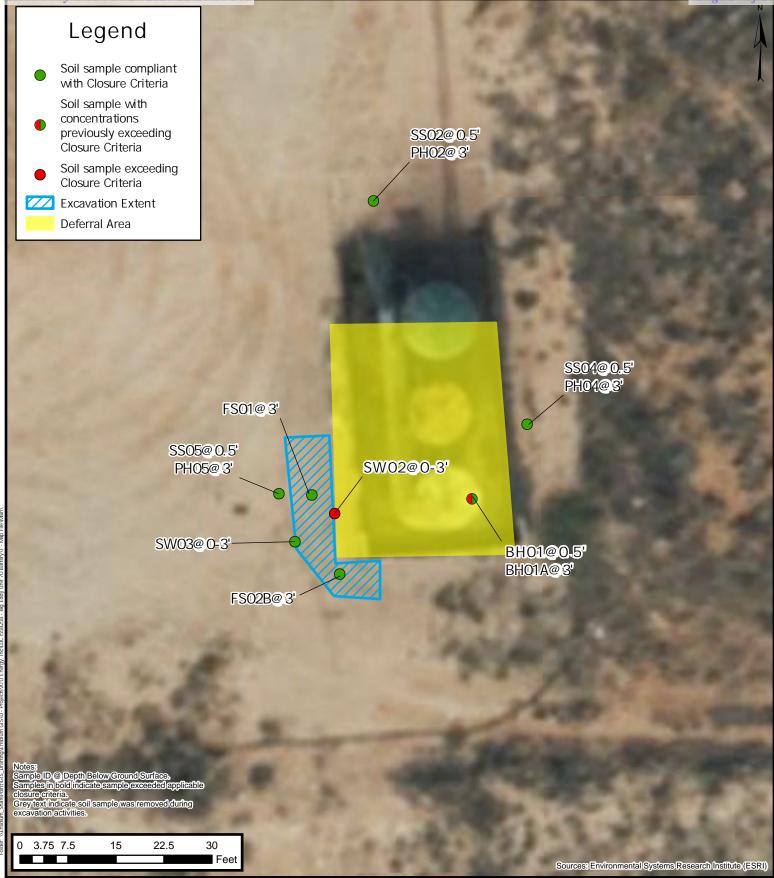
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Excavation Soil Sample Locations

XTO Energy, Inc
Big Eddy Unit 70 Battery
Incident Number: NAPP2318139530
Unit B Sec 26 T21S R28E
Eddy Co, New Mexico, United States

FIGURE 3





Deferral Area Map

XTO Energy, Inc Big Eddy Unit 70 Battery Incident Number: NAPP2318139530 Unit B Sec 26 T21S R28E Eddy Co, New Mexico, United States FIGURE 4



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 70 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 C	losure Criteria (f	NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Delir	neation Soil Sai	nples				
SS01	07/07/2023	0.5	1.81	155	3,680	35,000	<252	38,700	38,700	354
PH01	08/16/2023	3	<0.00201	<0.00402	<49.9	54.1	<49.9	54.1	54.1	75.1
SS02	07/07/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	91.0
PH02	08/16/2023	3	<0.00198	<0.00397	<50.5	<50.5	<50.5	<50.5	<50.5	161
SS03	07/07/2023	0.5	<0.00200	<0.00399	<50.4	4,420	<50.4	4,420	4,420	23.9
PH03	08/16/2023	2	< 0.00201	<0.00402	<50.3	67.4	<50.3	67.4	67.4	45.7
SS04	07/07/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	41.5
PH04	08/16/2023	3	< 0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	174
SS05	07/07/2023	0.5	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	32.9
PH05	08/16/2023	3	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	118
BH01	08/16/2023	0.5	<0.00200	0.109	<49.9	1,480	<49.9	1,480	1,480	53.3
BH01A	08/16/2023	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	89.4
				Confi	rmation Soil Sa	mples				
FS01	08/17/2023	3	<0.00200	< 0.00399	<50.1	50.8	<50.1	50.8	50.8	138
FS02	08/17/2023	4	<0.00199	<0.00398	<49.8	716	<49.8	716	716	66.2
FS02A	09/11/2023	3	<0.00199	0.0464	158	<49.6	<49.6	158	158	117
FS02B	09/28/2023	3	< 0.00199	<0.00398	<50.5	94.6	<50.5	94.6	94.6	116
SW01	08/17/2023	0-3	<0.00200	<0.00400	<49.9	1,740	<49.9	1,740	1,740	56.1
SW02	08/17/2023	0 - 3	<0.00202	0.365	214	1,770	<50.4	1,980	1,980	186
SW03	09/11/2023	0 - 3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	50.6

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities or sample location was resampled.

Ensolum 1 of 1



APPENDIX A

Referenced Well Records



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

aphic Area:	
d States 🗸	GO
	ed States 🔻

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 322632104023001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322632104023001 21S.28E.36.12321

Table of data Tab-separated data

Eddy County, New Mexico Latitude 32°26'32", Longitude 104°02'30" NAD27

Land-surface elevation 3,200 feet above NAVD88

The depth of the well is 241 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

Reselect per	iod									
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 measur
1976-12-07	7	D	62610		3037.77	NGVD29	1	Z		
1976-12-07	7	D	62611		3039.37	NAVD88	1	Z		
1976-12-07	7	D	72019	160.63			1	Z		
1978-01-05	5	D	62610		3037.64	NGVD29	1	Z		
1978-01-05	5	D	62611		3039.24	NAVD88	1	Z		
1978-01-05	5	D	72019	160.76			1	Z		
1983-01-20)	D	62610		3037.60	NGVD29	1	Z		
1983-01-20)	D	62611		3039.20	NAVD88	1	Z		
1983-01-20)	D	72019	160.80			1	Z		
1987-10-15	5	D	62610		3037.33	NGVD29	1	Z		
1987-10-15	5	D	62611		3038.93	NAVD88	1	Z		
1987-10-15	5	D	72019	161.07			1	Z		
1992-12-10)	D	62610		3037.62	NGVD29	Р	S	5	
1992-12-10)	D	62611		3039.22	NAVD88	Р	S	;	
1992-12-10)	D	72019	160.78			Р	S	5	
1998-01-27	7	D	62610		3037.29	NGVD29	1	S	;	

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	? Meas agen	uring cy	? Source (measure
1998-01-27 1998-01-27		D D		161.11	3038.89	NAVD88	1		S S		

-				
Ex	nla	na	ti	10

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	Р	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	Α	Approved for publication Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> **Data Tips** Explanation of terms Subscribe for system changes **News**

Privacy Accessibility FOIA Policies and Notices

<u>U.S. Department of the Interior | U.S. Geological Survey</u>
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-07-14 15:08:22 EDT

0.28 0.25 nadww02





APPENDIX B

Photographic Log



Photographic Log XTO Energy, Inc Big Eddy Unit 70 Battery Incident Number NAPP2318139530





Photograph 1 Date: 7/7/2023 Description: Site assessment activities, release extent.

View: Northwest

Photograph 2 Date: 8/17/2023 Description: Site conditions behind tank battery area.

View: South





Photograph 3 Date: 9/11/2023

Description: Final excavation extent.

View: Northwest

Photograph 4 Date: 9/11/2023

Description: Final excavation extent.

View: Southeast



Photographic Log XTO Energy, Inc Big Eddy Unit 70 Battery Incident Number NAPP2318139530



Photograph 5 Date: 8/11/2023

Description: Liner inspection activities, liner breach

View: North



Photograph 6 Date: 9/15/2023

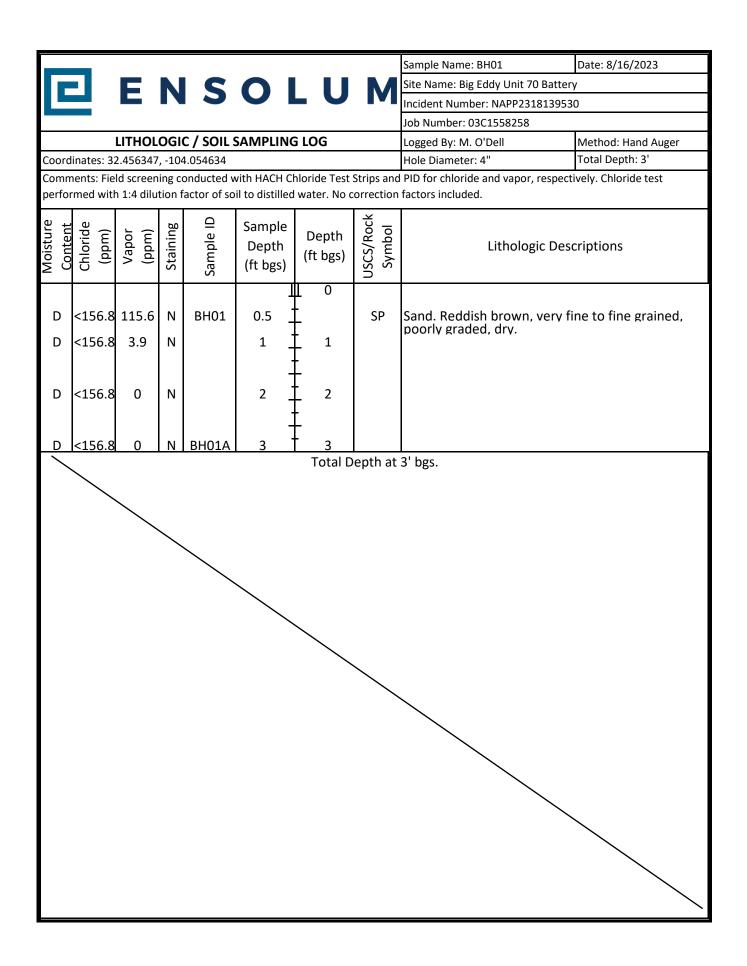
Description: Liner patch following delineation activities.

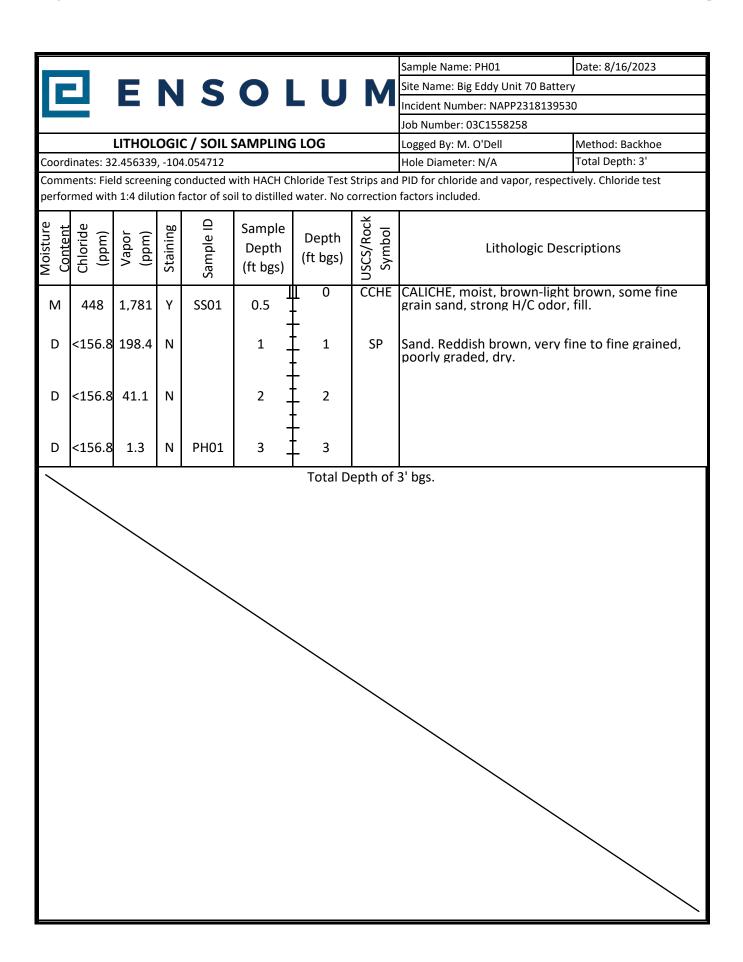
View: East

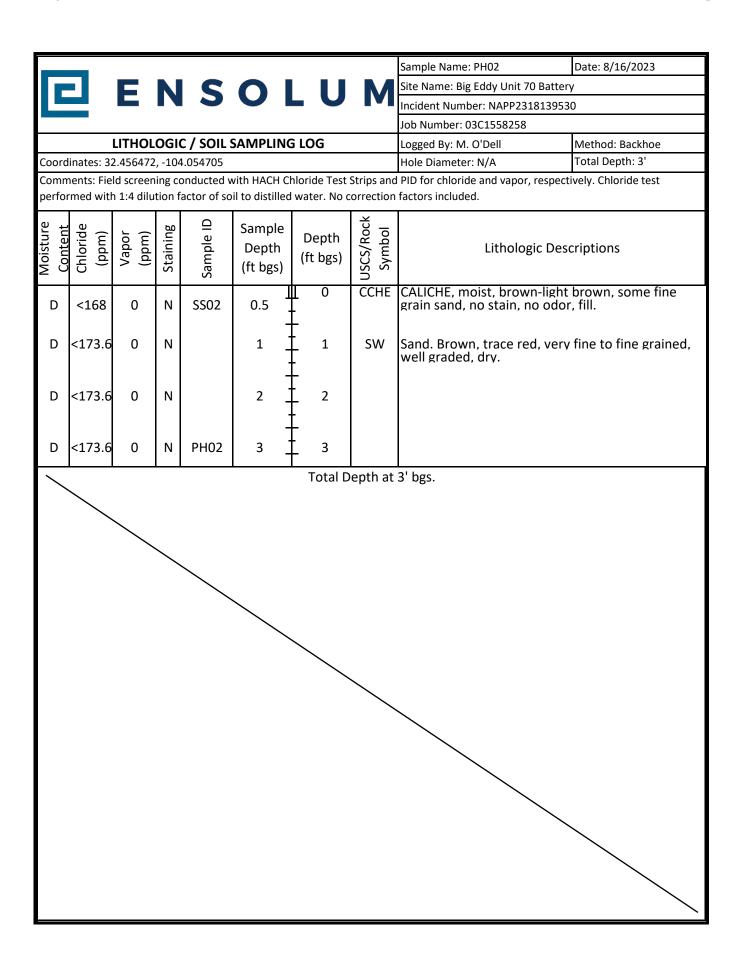


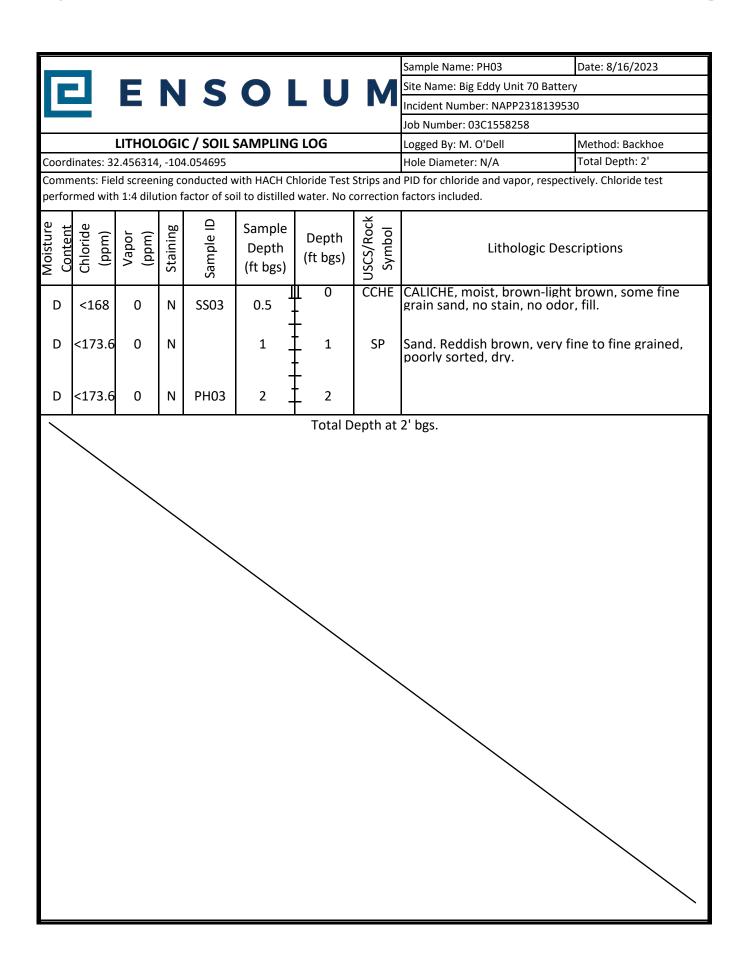
APPENDIX C

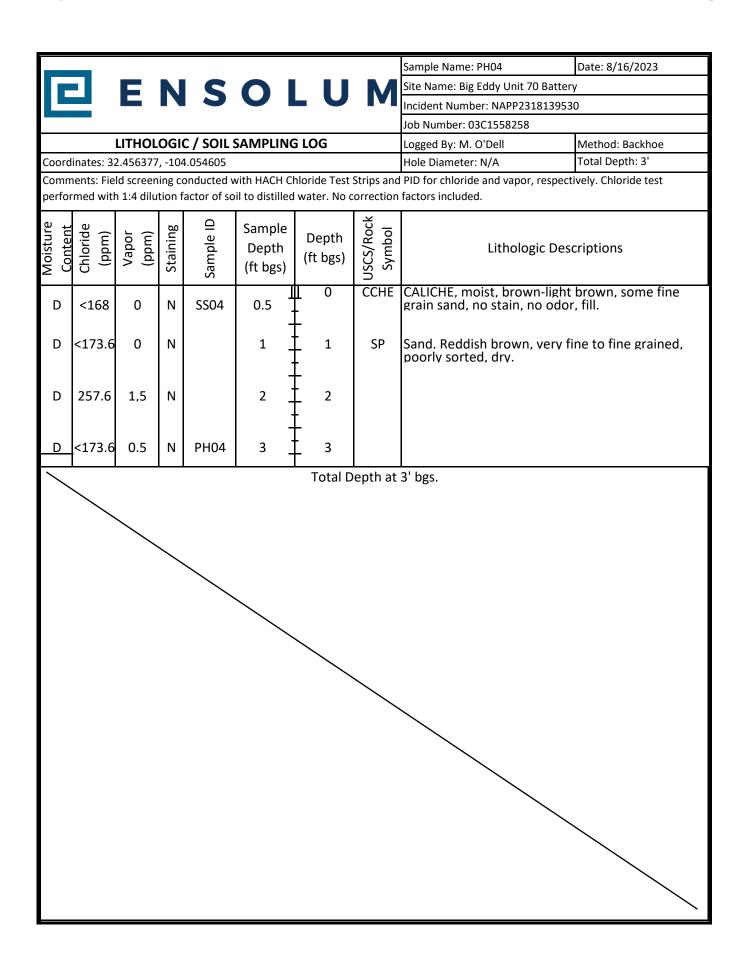
Lithologic Soil Sampling Logs

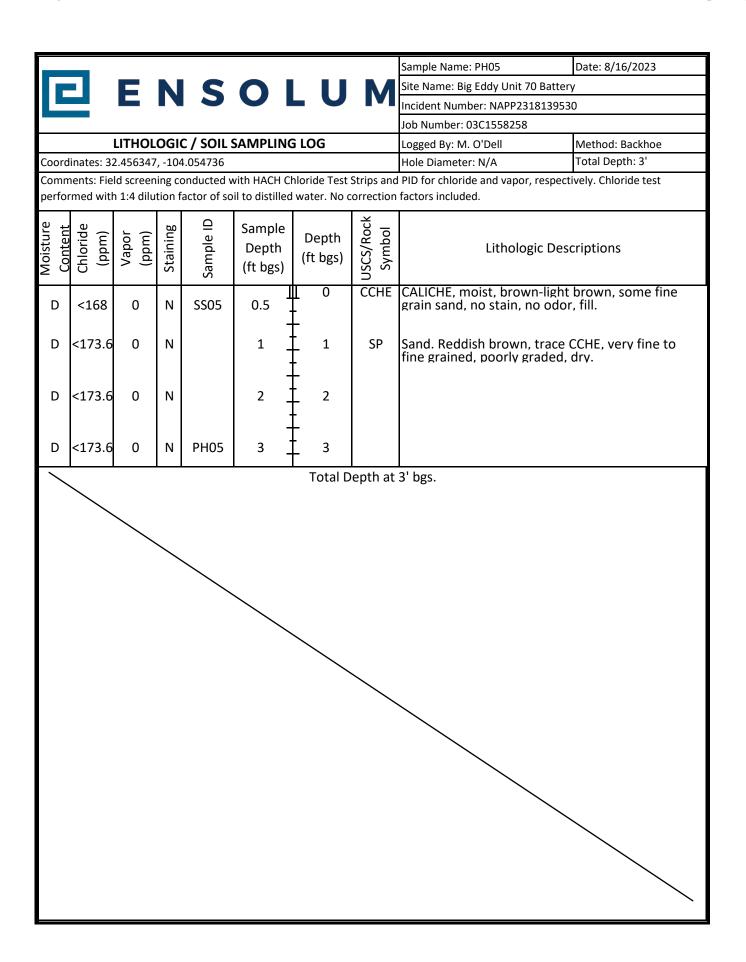














APPENDIX D

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 7/25/2023 11:10:26 AM

JOB DESCRIPTION

Big Eddy Unit 70 Battery SDG NUMBER 03C1558258

JOB NUMBER

890-4930-1

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 7/25/2023 11:10:26 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Laboratory Job ID: 890-4930-1
SDG: 03C1558258

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receint Checklists	27

4

6

8

9

11

12

14

Definitions/Glossary

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

SDG: 03C1558258

1558258

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, 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

TEF

TEQ

TNTC

n	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

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

Eurofins Carlsbad

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Job ID: 890-4930-1 Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Job ID: 890-4930-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4930-1

Receipt

The samples were received on 7/12/2023 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4930-1), SS02 (890-4930-2), SS03 (890-4930-3), SS04 (890-4930-4) and SS05 (890-4930-5).

GC VOA

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

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

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

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

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS02 (890-4930-2), SS03 (890-4930-3), SS04 (890-4930-4), SS05 (890-4930-5), (LCS 880-57703/1-A), (LCSD 880-57703/2-A), (MB 880-57655/5-A), (890-4929-A-4-D), (890-4929-A-4-B) MS) and (890-4929-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS01 (890-4930-1). 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: (CCV 880-58306/20), (CCV 880-58306/31) and (CCV 880-58306/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01 (890-4930-1), (890-4921-A-1-H MS) and (890-4921-A-1-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-57822 and analytical batch 880-58306 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.

HPLC/IC

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

Case Narrative

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Job ID: 890-4930-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS01 Lab Sample ID: 890-4930-1

Date Collected: 07/07/23 14:55 Matrix: Solid Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.81		0.402	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
Toluene	33.4		0.402	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
Ethylbenzene	5.69		0.402	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
m-Xylene & p-Xylene	91.4		0.805	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
o-Xylene	22.8		0.402	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
Xylenes, Total	114		0.805	mg/Kg		07/17/23 13:55	07/20/23 14:48	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			07/17/23 13:55	07/20/23 14:48	200
1,4-Difluorobenzene (Surr)	105		70 - 130			07/17/23 13:55	07/20/23 14:48	200
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	155		0.805	mg/Kg			07/21/23 08:26	1
Method: SW846 8015 NM - Diese	n italigo Olgali	ica (Dixo) (GC)					
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
	•		•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/25/23 11:35	Dil Fac
Analyte	Result 38700	Qualifier	RL 252		<u>D</u>	Prepared		
Analyte Total TPH	Result 38700 sel Range Orga	Qualifier	RL 252		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 38700 sel Range Orga	Qualifier nics (DRO)	RL 252 (GC)	mg/Kg	=		07/25/23 11:35	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 38700 sel Range Orga Result	Qualifier nics (DRO)	RL 252 (GC) RL	mg/Kg	=	Prepared	07/25/23 11:35 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 38700 sel Range Orga Result 3680	Qualifier nics (DRO) Qualifier	RL 252 (GC) RL 252	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18	07/25/23 11:35 Analyzed 07/24/23 18:39	Dil Fac 5
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 38700 sel Range Orga Result 3680 35000	Qualifier nics (DRO) Qualifier	RL 252 (GC) RL 252 252	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18 07/19/23 10:18	07/25/23 11:35 Analyzed 07/24/23 18:39 07/24/23 18:39	Dil Fac 5 5
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 38700 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 252 (GC) RL 252 252 252	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18 07/19/23 10:18	07/25/23 11:35 Analyzed 07/24/23 18:39 07/24/23 18:39 07/24/23 18:39	Dil Fac 5 5 5 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier nics (DRO) Qualifier U	RL 252 (GC) RL 252 252 252 Limits	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18 07/19/23 10:18 07/19/23 10:18 Prepared	07/25/23 11:35 Analyzed 07/24/23 18:39 07/24/23 18:39 07/24/23 18:39 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 38700 sel Range Orga Result 3680 35000 <252 %Recovery 668 375	Qualifier Dics (DRO) Qualifier U Qualifier S1+ S1+	RL 252 (GC) RL 252 252 252 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18 07/19/23 10:18 07/19/23 10:18 Prepared 07/19/23 10:18	07/25/23 11:35 Analyzed 07/24/23 18:39 07/24/23 18:39 Analyzed 07/24/23 18:39	1 Dil Fac 5 5 5 Dil Fac 5
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 38700	Qualifier Dics (DRO) Qualifier U Qualifier S1+ S1+	RL 252 (GC) RL 252 252 252 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	=	Prepared 07/19/23 10:18 07/19/23 10:18 07/19/23 10:18 Prepared 07/19/23 10:18	07/25/23 11:35 Analyzed 07/24/23 18:39 07/24/23 18:39 Analyzed 07/24/23 18:39	Dil Fac 5 5 Dil Fac 5 Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4930-2

Date Collected: 07/07/23 15:00 Date Received: 07/12/23 08:35

Released to Imaging: 2/26/2024 11:37:09 AM

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/14/23 14:30	07/16/23 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	258	S1+	70 - 130			07/14/23 14:30	07/16/23 12:53	

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-4930-1 Client: Ensolum Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS02 Lab Sample ID: 890-4930-2

Date Collected: 07/07/23 15:00 Date Received: 07/12/23 08:35 Sample Depth: 0.5

Matrix: Solid

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

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 07/14/23 14:30 1,4-Difluorobenzene (Surr) 91 70 - 130 07/16/23 12:53

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00401 U 0.00401 07/17/23 14:47 mg/Kg

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

RL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 07/25/23 11:35

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 07/19/23 10:18 07/24/23 19:49 (GRO)-C6-C10 <50.0 U 50.0 07/19/23 10:18 07/24/23 19:49 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/19/23 10:18 07/24/23 19:49

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 109 70 - 130 07/19/23 10:18 07/24/23 19:49 70 - 130 07/19/23 10:18 94 07/24/23 19:49 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.97 07/14/23 16:44 Chloride 91.0 mg/Kg

Lab Sample ID: 890-4930-3 Client Sample ID: SS03

Date Collected: 07/07/23 15:05 Date Received: 07/12/23 08:35

Sample Depth: 0.5

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 07/14/23 14:30 07/16/23 13:19 Toluene <0.00200 U 0.00200 07/14/23 14:30 07/16/23 13:19 mg/Kg <0.00200 U 0.00200 07/14/23 14:30 07/16/23 13:19 Ethylbenzene mg/Kg 07/16/23 13:19 m-Xylene & p-Xylene <0.00399 U 0.00399 07/14/23 14:30 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 07/14/23 14:30 07/16/23 13:19 Xylenes, Total <0.00399 U 0.00399 mg/Kg 07/14/23 14:30 07/16/23 13:19

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 196 S1+ 70 - 13007/14/23 14:30 07/16/23 13:19 1,4-Difluorobenzene (Surr) S1-70 - 130 07/14/23 14:30 07/16/23 13:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac <0.00399 Total BTEX 0.00399 07/17/23 14:47 mg/Kg

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

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.4 mg/Kg 07/25/23 11:35 4420

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS03

Lab Sample ID: 890-4930-3

Date Collected: 07/07/23 15:05 Matrix: Solid Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/19/23 10:18	07/24/23 19:06	1
Diesel Range Organics (Over C10-C28)	4420		50.4	mg/Kg		07/19/23 10:18	07/24/23 19:06	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/19/23 10:18	07/24/23 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			07/19/23 10:18	07/24/23 19:06	1
o-Terphenyl -	85		70 - 130			07/19/23 10:18	07/24/23 19:06	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4930-4 **Matrix: Solid**

Date Collected: 07/07/23 15:10

Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		07/14/23 14:30	07/16/23 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	240	S1+	70 - 130			07/14/23 14:30	07/16/23 13:45	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130			07/14/23 14:30	07/16/23 13:45	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/17/23 14:47	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/25/23 11:35	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/19/23 10:18	07/24/23 20:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/19/23 10:18	07/24/23 20:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/19/23 10:18	07/24/23 20:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			07/19/23 10:18	07/24/23 20:11	1
1-Chioroctane	7.0							

Client Sample Results

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS04 Lab Sample ID: 890-4930-4

Date Collected: 07/07/23 15:10 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	41.5	5.01	mg/Kg			07/14/23 16:54	1		

Client Sample ID: SS05

Date Collected: 07/07/23 15:15

Lab Sample ID: 890-4930-5

Matrix: Solid

Date Collected: 07/07/23 15:15 Date Received: 07/12/23 08:35

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 14:10	
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 14:10	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 14:10	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		07/14/23 14:30	07/16/23 14:10	
o-Xylene	<0.00198	U	0.00198	mg/Kg		07/14/23 14:30	07/16/23 14:10	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		07/14/23 14:30	07/16/23 14:10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	261	S1+	70 - 130			07/14/23 14:30	07/16/23 14:10	
1,4-Difluorobenzene (Surr)	120		70 - 130			07/14/23 14:30	07/16/23 14:10	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			07/17/23 14:47	•
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/25/23 11:35	•
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/19/23 10:18	07/24/23 19:28	,
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/19/23 10:18	07/24/23 19:28	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/19/23 10:18	07/24/23 19:28	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	104		70 - 130			07/19/23 10:18	07/24/23 19:28	
o-Terphenyl	88		70 - 130			07/19/23 10:18	07/24/23 19:28	
•								
: Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Method: EPA 300.0 - Anions, Ion Analyte	• •	ohy - Solubl Qualifier	e RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-4930-1
SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-30743-A-1-D MS	Matrix Spike	104	105	
-30743-A-1-E MSD	Matrix Spike Duplicate	112	104	
-4929-A-4-B MS	Matrix Spike	272 S1+	76	
4929-A-4-C MSD	Matrix Spike Duplicate	218 S1+	70	
4930-1	SS01	141 S1+	105	
-4930-2	SS02	258 S1+	91	
-4930-3	SS03	196 S1+	61 S1-	
-4930-4	SS04	240 S1+	58 S1-	
4930-5	SS05	261 S1+	120	
880-57703/1-A	Lab Control Sample	213 S1+	85	
880-57844/1-A	Lab Control Sample	95	100	
SD 880-57703/2-A	Lab Control Sample Dup	223 S1+	63 S1-	
SD 880-57844/2-A	Lab Control Sample Dup	89	103	
880-57655/5-A	Method Blank	115	60 S1-	
880-57703/5-A	Method Blank	122	81	
	Method Blank	83	95	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4921-A-1-H MS	Matrix Spike	13 S1-	10 S1-
890-4921-A-1-I MSD	Matrix Spike Duplicate	13 S1-	10 S1-
890-4930-1	SS01	668 S1+	375 S1+
890-4930-2	SS02	109	94
890-4930-3	SS03	111	85
890-4930-4	SS04	113	96
890-4930-5	SS05	104	88
LCS 880-57822/2-A	Lab Control Sample	96	87
LCSD 880-57822/3-A	Lab Control Sample Dup	94	84
MB 880-57822/1-A	Method Blank	134 S1+	123

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57655/5-A

Matrix: Solid Analysis Batch: 57701 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57655

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

MB MB

MR MR

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

Lab Sample ID: MB 880-57703/5-A

Matrix: Solid

Analysis Batch: 57701

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 57703

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

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	07/14/23	3 14:30	07/16/23 10:45	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/14/23	3 14:30	07/16/23 10:45	1

Lab Sample ID: LCS 880-57703/1-A

Matrix: Solid

Analysis Batch: 57701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 57703

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

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130
1.4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-57703/2-A

Matrix: Solid

Analysis Batch: 57701

Client Sample ID	: Lab Control	Sample Dup
	Dean T	mar Tatal/NIA

Prep Type: Total/NA

Prep Batch: 57703

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1148	mg/Kg		115	70 - 130	3	35	

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Page 12 of 28

QC Sample Results

Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: LCSD 880-57703/2-A

Matrix: Solid Analysis Batch: 57701 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 57703

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

LCSD LCSD

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

Lab Sample ID: 890-4929-A-4-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 57701

Prep Type: Total/NA

Prep Batch: 57703

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00202 U 0.0994 0.1077 108 mg/Kg 70 - 130 Toluene <0.00202 U F2 F1 0.0994 0.07130 72 70 - 130 mg/Kg Ethylbenzene 0.0994 0.04676 F1 47 70 - 130 <0.00202 U F2 F1 mg/Kg 70 - 130 m-Xylene & p-Xylene <0.00404 U F2 F1 0.199 0.08711 F1 mg/Kg 44 o-Xylene <0.00202 UF1 0.0994 0.06021 F1 mg/Kg 70 - 130

MS MS

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

Lab Sample ID: 890-4929-A-4-C MSD

Matrix: Solid

Analysis Batch: 57701

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 57703

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

MSD MSD

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

Lab Sample ID: MB 880-57844/5-A

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57844

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/17/23 13:55	07/20/23 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/17/23 13:55	07/20/23 11:20	1

Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: MB 880-57844/5-A **Matrix: Solid**

Analysis Batch: 58089

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

Prep Batch: 57844

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac o-Xylene <0.00200 U 0.00200 07/17/23 13:55 07/20/23 11:20 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/17/23 13:55 07/20/23 11:20

MD MD

MB MB

	IVID IVID				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83	70 - 130	07/17/23 13:55	07/20/23 11:20	1
1,4-Difluorobenzene (Surr)	95	70 - 130	07/17/23 13:55	07/20/23 11:20	1

Lab Sample ID: LCS 880-57844/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 58089

Prep Type: Total/NA

Prep Batch: 57844

	Spike	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1031	-	mg/Kg		103	70 - 130	
Toluene	0.100	0.1080		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.09914		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.1936		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09607		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-57844/2-A

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57844

LCSD LCSD Spike RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1039 mg/Kg 104 70 - 130 35 1 Toluene 0.100 0.1047 mg/Kg 105 70 - 130 3 35 Ethylbenzene 0.100 0.09470 mg/Kg 95 70 - 130 5 35 m-Xylene & p-Xylene 0.200 0.1830 mg/Kg 91 70 - 130 6 35 o-Xylene 0.100 0.09070 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-30743-A-1-D MS

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57844

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0998	0.1036		mg/Kg		104	70 - 130	
Toluene	<0.00202	U	0.0998	0.1039		mg/Kg		104	70 - 130	
Ethylbenzene	<0.00202	U	0.0998	0.09181		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1782		mg/Kg		89	70 - 130	
o-Xylene	< 0.00202	U	0.0998	0.09006		mg/Kg		90	70 - 130	
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Result Benzene <0.00202	Senzene	Analyte Result Publisher Qualifier Added Benzene <0.00202 U 0.0998	Analyte Result Qualifier Added Result Benzene <0.00202	Analyte Result Qualifier Added Result Qualifier Benzene <0.00202	Analyte Result Qualifier Added Result Qualifier Unit Benzene <0.00202	Analyte Result Benzene Qualifier Added Qualifier Result Qualifier Unit Unit Unit Unit Media Description Toluene <0.00202 U	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Benzene <0.00202	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene <0.00202

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: 880-30743-A-1-D MS

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57844

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 104
 70 - 130

 1,4-Difluorobenzene (Surr)
 105
 70 - 130

Lab Sample ID: 880-30743-A-1-E MSD

Matrix: Solid

Analysis Batch: 58089

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57844

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <0.00202 U 0.0996 0.09653 97 70 - 130 35 Benzene mg/Kg 7 Toluene <0.00202 U 0.0996 0.1066 mg/Kg 107 70 - 130 35 <0.00202 U 0.0996 0.09743 mg/Kg 98 70 - 130 35 Ethylbenzene 6 m-Xylene & p-Xylene <0.00403 U 0.199 0.1934 mg/Kg 97 70 - 130 8 35 o-Xylene <0.00202 U 0.0996 0.09744 mg/Kg 97 70 - 130 35

MSD MSD

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 112
 70 - 130

 1,4-Difluorobenzene (Surr)
 104
 70 - 130

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

Lab Sample ID: MB 880-57822/1-A

Matrix: Solid

Analysis Batch: 58306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57822

ı									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0	mg/Kg	_	07/17/23 10:30	07/24/23 08:51	1
	(GRO)-C6-C10								
	Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/17/23 10:30	07/24/23 08:51	1
	C10-C28)								
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/17/23 10:30	07/24/23 08:51	1
ı									

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 134 1-Chlorooctane S1+ 70 - 130 07/17/23 10:30 07/24/23 08:51 o-Terphenyl 123 70 - 130 07/17/23 10:30 07/24/23 08:51

Lab Sample ID: LCS 880-57822/2-A

Matrix: Solid

Analysis Batch: 58306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57822

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	935.9		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	888.1		mg/Kg		89	70 - 130	
C10 C20)								

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	87		70 - 130

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Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery

SDG: 03C1558258

Prep Type: Total/NA

Prep Batch: 57822

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

Lab Sample ID: LCSD 880-57822/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 58306 Prep Batch: 57822

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	924.4		mg/Kg		92	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	881.3		mg/Kg		88	70 - 130	1	20
	Gasoline Range Organics (GRO)-C6-C10	Analyte Added Gasoline Range Organics 1000 (GRO)-C6-C10	Analyte Added Result Gasoline Range Organics 1000 924.4 (GRO)-C6-C10	Analyte Added Result Qualifier Gasoline Range Organics 1000 924.4 (GRO)-C6-C10	AnalyteAddedResultQualifierUnitGasoline Range Organics1000924.4mg/Kg(GRO)-C6-C10	Analyte Added Result Qualifier Unit D Gasoline Range Organics 1000 924.4 mg/Kg (GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecGasoline Range Organics1000924.4mg/Kg92(GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecLimitsGasoline Range Organics1000924.4mg/Kg9270 - 130(GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecLimitsRPDGasoline Range Organics1000924.4mg/Kg9270 - 1301(GRO)-C6-C10

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 94 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-4921-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 58306

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	990	1075		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.2	U	990	999.7		mg/Kg		99	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 13 S1-70 - 130 o-Terphenyl 10 S1-70 - 130

Lab Sample ID: 890-4921-A-1-I MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 58306									Prep	Batch:	57822
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2		990	1080		mg/Kg		109	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.2	U	990	1028		mg/Kg		102	70 - 130	3	20

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 13 S1-70 - 130 10 S1-70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57588/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 57721

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/14/23 16:14	1

QC Sample Results

Client: Ensolum Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery

SDG: 03C1558258

Client Sample ID: SS01

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57588/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57721

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.7 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-57588/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57721

Spike LCSD LCSD %Rec RPD Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits Chloride 250 250.0 mg/Kg 100 90 - 110 0

Lab Sample ID: 890-4930-1 MS **Client Sample ID: SS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57721

%Rec Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 354 252 594.7 95 90 - 110 mg/Kg

Lab Sample ID: 890-4930-1 MSD

Matrix: Solid

Analysis Batch: 57721

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits Chloride 354 252 595.1 96 90 - 110 0 20 mg/Kg

QC Association Summary

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Project/Site. Big Eddy Office

GC VOA

Prep	Batcl	h: 57	655
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57655/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 57701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-2	SS02	Total/NA	Solid	8021B	57703
890-4930-3	SS03	Total/NA	Solid	8021B	57703
890-4930-4	SS04	Total/NA	Solid	8021B	57703
890-4930-5	SS05	Total/NA	Solid	8021B	57703
MB 880-57655/5-A	Method Blank	Total/NA	Solid	8021B	57655
MB 880-57703/5-A	Method Blank	Total/NA	Solid	8021B	57703
LCS 880-57703/1-A	Lab Control Sample	Total/NA	Solid	8021B	57703
LCSD 880-57703/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57703
890-4929-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	57703
890-4929-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57703

Prep Batch: 57703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-2	SS02	Total/NA	Solid	5035	
890-4930-3	SS03	Total/NA	Solid	5035	
890-4930-4	SS04	Total/NA	Solid	5035	
890-4930-5	SS05	Total/NA	Solid	5035	
MB 880-57703/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57703/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57703/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4929-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4929-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 57844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Total/NA	Solid	5035	
MB 880-57844/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30743-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-30743-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Total/NA	Solid	Total BTEX	
890-4930-2	SS02	Total/NA	Solid	Total BTEX	
890-4930-3	SS03	Total/NA	Solid	Total BTEX	
890-4930-4	SS04	Total/NA	Solid	Total BTEX	
890-4930-5	SS05	Total/NA	Solid	Total BTEX	

Analysis Batch: 58089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Total/NA	Solid	8021B	57844
MB 880-57844/5-A	Method Blank	Total/NA	Solid	8021B	57844
LCS 880-57844/1-A	Lab Control Sample	Total/NA	Solid	8021B	57844
LCSD 880-57844/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57844
880-30743-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	57844

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Page 18 of 28

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QC Association Summary

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-4930-1
SDG: 03C1558258

GC VOA (Continued)

Analysis Batch: 58089 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30743-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57844

GC Semi VOA

Prep Batch: 57822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Total/NA	Solid	8015NM Prep	
890-4930-2	SS02	Total/NA	Solid	8015NM Prep	
890-4930-3	SS03	Total/NA	Solid	8015NM Prep	
890-4930-4	SS04	Total/NA	Solid	8015NM Prep	
890-4930-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-57822/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57822/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57822/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4921-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4921-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Total/NA	Solid	8015B NM	57822
890-4930-2	SS02	Total/NA	Solid	8015B NM	57822
890-4930-3	SS03	Total/NA	Solid	8015B NM	57822
890-4930-4	SS04	Total/NA	Solid	8015B NM	57822
890-4930-5	SS05	Total/NA	Solid	8015B NM	57822
MB 880-57822/1-A	Method Blank	Total/NA	Solid	8015B NM	57822
LCS 880-57822/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57822
LCSD 880-57822/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57822
890-4921-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	57822
890-4921-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57822

Analysis Batch: 58474

Lab Sample ID 890-4930-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-4930-2	SS02	Total/NA	Solid	8015 NM	
890-4930-3	SS03	Total/NA	Solid	8015 NM	
890-4930-4	SS04	Total/NA	Solid	8015 NM	
890-4930-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 57588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Soluble	Solid	DI Leach	
890-4930-2	SS02	Soluble	Solid	DI Leach	
890-4930-3	SS03	Soluble	Solid	DI Leach	
890-4930-4	SS04	Soluble	Solid	DI Leach	
890-4930-5	SS05	Soluble	Solid	DI Leach	
MB 880-57588/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57588/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57588/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4930-1 MS	SS01	Soluble	Solid	DI Leach	
890-4930-1 MSD	SS01	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-4930-1
SDG: 03C1558258

HPLC/IC

Analysis Batch: 57721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4930-1	SS01	Soluble	Solid	300.0	57588
890-4930-2	SS02	Soluble	Solid	300.0	57588
890-4930-3	SS03	Soluble	Solid	300.0	57588
890-4930-4	SS04	Soluble	Solid	300.0	57588
890-4930-5	SS05	Soluble	Solid	300.0	57588
MB 880-57588/1-A	Method Blank	Soluble	Solid	300.0	57588
LCS 880-57588/2-A	Lab Control Sample	Soluble	Solid	300.0	57588
LCSD 880-57588/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57588
890-4930-1 MS	SS01	Soluble	Solid	300.0	57588
890-4930-1 MSD	SS01	Soluble	Solid	300.0	57588

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Client: Ensolum

Job ID: 890-4930-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS01 Lab Sample ID: 890-4930-1 Date Collected: 07/07/23 14:55 **Matrix: Solid**

Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57844	07/17/23 13:55	EL	EET MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	58089	07/20/23 14:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57867	07/21/23 08:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58474	07/25/23 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	57822	07/19/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	58306	07/24/23 18:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57588	07/13/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1			57721	07/14/23 16:29	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4930-2

Date Collected: 07/07/23 15:00 **Matrix: Solid** Date Received: 07/12/23 08:35

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 4.99 g Total/NA 5 mL 57703 07/14/23 14:30 EL EET MID Total/NA 8021B 07/16/23 12:53 Analysis 1 5 mL 5 mL 57701 AJ EET MID Total/NA Total BTEX 57867 07/17/23 14:47 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 58474 07/25/23 11:35 SM **EET MID** Total/NA 8015NM Prep 10.01 g 10 mL 57822 07/19/23 10:18 TKC **EET MID** Prep Total/NA Analysis 8015B NM 1 uL 1 uL 58306 07/24/23 19:49 SM **EET MID** Soluble Leach DI Leach 5.03 g 50 mL 57588 07/13/23 10:51 KS **EET MID** Soluble Analysis 300.0 57721 07/14/23 16:44 СН **EET MID**

Client Sample ID: SS03 Lab Sample ID: 890-4930-3

Date Collected: 07/07/23 15:05 Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 13:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57867	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58474	07/25/23 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57822	07/19/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58306	07/24/23 19:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57588	07/13/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1			57721	07/14/23 16:49	CH	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4930-4

Date Collected: 07/07/23 15:10 Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 13:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57867	07/17/23 14:47	AJ	EET MID

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Page 21 of 28

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SS04 Lab Sample ID: 890-4930-4

Date Collected: 07/07/23 15:10

Date Received: 07/12/23 08:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			58474	07/25/23 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57822	07/19/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58306	07/24/23 20:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57588	07/13/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1			57721	07/14/23 16:54	CH	EET MID

Client Sample ID: SS05 Lab Sample ID: 890-4930-5

Date Collected: 07/07/23 15:15 Matrix: Solid

Date Received: 07/12/23 08:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57703	07/14/23 14:30	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57701	07/16/23 14:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			57867	07/17/23 14:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			58474	07/25/23 11:35	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57822	07/19/23 10:18	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58306	07/24/23 19:28	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57588	07/13/23 10:51	KS	EET MID
Soluble	Analysis	300.0		1			57721	07/14/23 16:58	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

Job ID: 890-4930-1

Section of Client: Ensolum

Section of Client: En

Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	• '	t the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

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Method Summary

Client: Ensolum Job ID: 890-4930-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

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Sample Summary

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-4930-1

SDG: 03C1558258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4930-1	SS01	Solid	07/07/23 14:55	07/12/23 08:35	0.5
890-4930-2	SS02	Solid	07/07/23 15:00	07/12/23 08:35	0.5
890-4930-3	SS03	Solid	07/07/23 15:05	07/12/23 08:35	0.5
890-4930-4	SS04	Solid	07/07/23 15:10	07/12/23 08:35	0.5
890-4930-5	SS05	Solid	07/07/23 15:15	07/12/23 08:35	0.5

Control Fins				0 1								5
om Page () Comments ownfields □ RRC □ St PST/UST □ Other: None: NO DI Cool: Cool Me HCL: HC HA H ₂ SO ₄ : H ₂ NaBIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Z NaOH+Ascorbic Acit Sample Com Incident ID: nAPP231813 AFE: Cost Center: 1135891(AFE: 11358917 AFE: Dat			35		رة رو	1.1		utta	JUP (-			。 (本)
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Page Comments ownfields RRC St PST/UST TRRP NaPT Other None: NO DITERSO ME HCL: HC HC H ₂ SO ₄ : H ₂ NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: 2 NaOH+Ascorbic Acid Sample Com Incident ID: nAPP231813 AFE: Cost Center: 11358910 AFE:		ssigns standard terms and conditions ue to circumstances beyond the control be enforced unless previously negotiated.	its affiliates and subcontractors. It a red by the client if such losses are di to, but not analyzed. These terms wil	rofins Xenco, i cpenses incurr Eurofins Xenc	pany to Eurosses or ex bmitted to	n client com Ility for any l ch sample su	hase order from any responsib ge of \$5 for each	tes a valid purc hall not assume ject and a char	f samples constitute of samples and simples and simples and simples are proposed to each pr	inquishment only for the cost	ocument and re o will be liable o mum charge of	Notice: Signature of this d of service. Eurofins Xenco of Eurofins Xenco. A mini
Reference Testing Houseon TX (281) 240-200, Date, TX (281) 240-200, Date	174	g Mn Mo Ni K Se Ag SiO ₂ N li Se Ag Ti U Hg: 1631	Cr Co Cu Pb Mn Mo N	Be B Cd 3a Be Cd	As Ba Sb As I	1 AI Sb 3RCRA	M Texas 1 LP 6010: (TCLP / SP	ed 8RC	/ 6020: o be analyz	10 200.8 id Metal(s) t	Total 200.7 / 60 Circle Method(s) an
Reaction Testing Housen Tricating Housen Tr				Z								
Currofins Environment Testing Advance Testing				2	1	1						
Environment Testing												
Environment Testing												
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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4930-1

 SDG Number: 03C1558258

Login Number: 4930 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4930-1 SDG Number: 03C1558258

List Source: Eurofins Midland

Login Number: 4930 List Number: 2 List Creation: 07/13/23 11:48 AM Creator: Rodriguez, Leticia

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	N/A	

Released to Imaging: 2/26/2024 11:37:09 AM

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/28/2023 11:13:42 AM

JOB DESCRIPTION

Big Eddy Unit 70 Battery SDG NUMBER 03C1558258

JOB NUMBER

890-5114-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



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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 8/28/2023 11:13:42 AM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 29

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Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Laboratory Job ID: 890-5114-1
SDG: 03C1558258

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	28

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Definitions/Glossary

Job ID: 890-5114-1 Client: Ensolum Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Qualifiers

GC	V	0	A
-	•	_	•

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery e

exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

U

Qualifier	Qualifier Description
F1	MS and/or MSD recov

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

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

Presumptive **PRES** QC **Quality Control**

TNTC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Job ID: 890-5114-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5114-1

Receipt

The samples were received on 8/16/2023 4:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-5114-1), BH01A (890-5114-2), PH01 (890-5114-3), PH03 (890-5114-4), PH04 (890-5114-5), PH02 (890-5114-6) and PH05 (890-5114-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-5114-3), PH04 (890-5114-5), PH02 (890-5114-6) and PH05 (890-5114-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-61151 and analytical batch 880-61057 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene. Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-61151 and analytical batch 880-61057 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61009 and analytical batch 880-60956 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60956/31), (CCV 880-60956/47) and (CCV 880-60956/58). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-60956 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60956/47).

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-60585 and analytical batch 880-60731 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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Lab Sample ID: 890-5114-1

Client Sample Results

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: BH01

Date Collected: 08/16/23 09:35 Date Received: 08/16/23 16:44

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
Ethylbenzene	0.00664	F1	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
m-Xylene & p-Xylene	0.0806	*+ F1	0.00399	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
o-Xylene	0.0222	*+ F1	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
Xylenes, Total	0.103	*+ F1	0.00399	mg/Kg		08/25/23 15:10	08/25/23 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			08/25/23 15:10	08/25/23 23:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130			08/25/23 15:10	08/25/23 23:47	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.109		0.00399	mg/Kg			08/28/23 10:58	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1480		49.9	mg/Kg			08/25/23 11:26	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 00:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	1480		49.9	mg/Kg		08/24/23 12:53	08/25/23 00:25	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 00:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			08/24/23 12:53	08/25/23 00:25	1
o-Terphenyl	109		70 - 130			08/24/23 12:53	08/25/23 00:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
•	• •	-						

Client Sample ID: BH01A

Date Collected: 08/16/23 10:10

Date Received: 08/16/23 16:44

Sample Depth: 3

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
m-Xylene & p-Xylene	<0.00404	U *+	0.00404	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
Xylenes, Total	<0.00404	U *+	0.00404	mg/Kg		08/25/23 15:10	08/26/23 00:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			08/25/23 15:10	08/26/23 00:08	1

4.97

mg/Kg

53.3 F1

Eurofins Carlsbad

08/21/23 14:27

Lab Sample ID: 890-5114-2

Matrix: Solid

Lab Sample ID: 890-5114-2

Client Sample Results

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: BH01A

Date Collected: 08/16/23 10:10 Date Received: 08/16/23 16:44

Sample Depth: 3

Method: SW846 8021B - Volatile (Organic Compounds	(GC)	(Continued)
modification of the country to the country to	rigariio Compoundo		(Continuou)

Surrogate	%Recovery Quali	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	08/25/23 15:10	08/26/23 00:08	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			08/28/23 10:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/25/23 11:26	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 00:46	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 00:46	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 00:46	1
Surrogato	%Pacayary	Qualifier	l imite			Propared	Analyzed	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123	70 - 130	08/24/23 12:53	08/25/23 00:46	1
o-Terphenyl	123	70 - 130	08/24/23 12:53	08/25/23 00:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4	5.00	mg/Kg			08/21/23 14:47	1

Client Sample ID: PH01 Lab Sample ID: 890-5114-3 Matrix: Solid

Date Collected: 08/16/23 12:00 Date Received: 08/16/23 16:44

Sample Depth: 3

ı	Method: SW846 8021B	Valatila Ossasia	O = (OO)

Genzene Foluene Ethylbenzene m-Xylene & p-Xylene p-Xylene	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		08/25/23 15:10	08/26/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/25/23 15:10	08/26/23 00:28	1
1 4-Diffuorohenzene (Surr)	66	S1-	70 130			08/25/23 15:10	08/26/23 00:28	1

4-Bromofluorobenzene (Surr)	97	70 - 130	08/25/23 15:10	08/26/23 00:28	1
1,4-Difluorobenzene (Surr)	66 S1-	70 - 130	08/25/23 15:10	08/26/23 00:28	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			08/28/23 10:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.1		49.9	mg/Kg			08/25/23 11:26	1

Lab Sample ID: 890-5114-3

Client Sample Results

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: PH01

Date Collected: 08/16/23 12:00 Date Received: 08/16/23 16:44

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 01:29	1
Diesel Range Organics (Over C10-C28)	54.1		49.9	mg/Kg		08/24/23 12:53	08/25/23 01:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/24/23 12:53	08/25/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			08/24/23 12:53	08/25/23 01:29	1
o-Terphenyl	104		70 - 130			08/24/23 12:53	08/25/23 01:29	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Michiga, El A 000.0 - Allions, lon								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: PH03 Lab Sample ID: 890-5114-4 Date Collected: 08/16/23 12:15 **Matrix: Solid**

Date Received: 08/16/23 16:44

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
Xylenes, Total	<0.00402	U *+	0.00402	mg/Kg		08/25/23 15:10	08/26/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/25/23 15:10	08/26/23 00:48	1
1,4-Difluorobenzene (Surr)	73		70 - 130			08/25/23 15:10	08/26/23 00:48	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/28/23 10:58	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.4		50.3	mg/Kg			08/25/23 11:26	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/24/23 12:53	08/25/23 01:50	1
Diesel Range Organics (Over C10-C28)	67.4		50.3	mg/Kg		08/24/23 12:53	08/25/23 01:50	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/24/23 12:53	08/25/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			08/24/23 12:53	08/25/23 01:50	1
o-Terphenyl	105		70 - 130			08/24/23 12:53	08/25/23 01:50	1

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: PH03

Lab Sample ID: 890-5114-4

Date Collected: 08/16/23 12:15 Date Received: 08/16/23 16:44 Matrix: Solid

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Cl	hromatography	y - Soluble					
Analyte	Result Q	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.7	4.98	mg/Kg			08/21/23 15:14	1

Client Sample ID: PH04 Lab Sample ID: 890-5114-5

Matrix: Solid

Date Collected: 08/16/23 12:50 Date Received: 08/16/23 16:44

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		08/25/23 15:10	08/26/23 01:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/25/23 15:10	08/26/23 01:09	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130			08/25/23 15:10	08/26/23 01:09	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/28/23 10:58	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) ((GC)					
	• •	ics (DRO) ((Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	• •	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/25/23 11:26	Dil Fac
Analyte Total TPH		Qualifier U	RL 50.2		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.2	Qualifier U	RL 50.2		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.2	Qualifier Unics (DRO) Qualifier	RL 50.2	mg/Kg			08/25/23 11:26	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.2 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.2 (GC)	mg/Kg		Prepared	08/25/23 11:26 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.2 sel Range Orga Result <50.2	Qualifier U nics (DRO) Qualifier U	RL	mg/Kg Unit mg/Kg		Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.2 (GC) RL 50.2 50.2	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:11 08/25/23 02:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.2 (GC) RL 50.2 50.2	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:11 08/25/23 02:11 08/25/23 02:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U	RL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared	08/25/23 11:26 Analyzed 08/25/23 02:11 08/25/23 02:11 08/25/23 02:11 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.2 (GC) RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:11 08/25/23 02:11 08/25/23 02:11 Analyzed 08/25/23 02:11	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.2 (GC) RL 50.2 50.2 50.2 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:11 08/25/23 02:11 08/25/23 02:11 Analyzed 08/25/23 02:11	

Lab Sample ID: 890-5114-6

Client Sample Results

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: PH02

Date Collected: 08/16/23 14:20 Date Received: 08/16/23 16:44

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		08/25/23 15:10	08/26/23 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			08/25/23 15:10	08/26/23 01:29	1
1,4-Difluorobenzene (Surr)	60	S1-	70 - 130			08/25/23 15:10	08/26/23 01:29	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			08/28/23 10:58	1
Method: SW846 8015 NM - Dies	•	, , ,	,		_			
	Result	Qualifier	GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	,	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/25/23 11:26	Dil Fac
Analyte	Result <50.5	Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH	Result <50.5	Qualifier U			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.5	Qualifier Unics (DRO) Qualifier	RL 50.5	mg/Kg		<u> </u>	08/25/23 11:26	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.5 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.5 (GC)	mg/Kg		Prepared	08/25/23 11:26 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	Result sel Range Orga Result 	Qualifier U nics (DRO) Qualifier U	RL 50.5 (GC) RL 50.5	mg/Kg Unit mg/Kg		Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:32	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result Sel Range Orga Result <50.5 \$50.5 \$50.5	Qualifier U nics (DRO) Qualifier U U	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:32 08/25/23 02:32	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:32 08/25/23 02:32 08/25/23 02:32	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared	08/25/23 11:26 Analyzed 08/25/23 02:32 08/25/23 02:32 08/25/23 02:32 Analyzed	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:32 08/25/23 02:32 08/25/23 02:32 Analyzed 08/25/23 02:32	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 Prepared 08/24/23 12:53	08/25/23 11:26 Analyzed 08/25/23 02:32 08/25/23 02:32 08/25/23 02:32 Analyzed 08/25/23 02:32	Dil Fac 1 1 Dil Fac

Client Sample ID: PH05

Date Collected: 08/16/23 15:15

Date Received: 08/16/23 16:44

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		08/25/23 15:10	08/26/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			08/25/23 15:10	08/26/23 01:50	1

Eurofins Carlsbad

Lab Sample ID: 890-5114-7

Matrix: Solid

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: PH05 Lab Sample ID: 890-5114-7 Date Collected: 08/16/23 15:15

118

Matrix: Solid

Sample Depth: 3

Chloride

Date Received: 08/16/23 16:44

urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
,4-Difluorobenzene (Surr)	60	S1-	70 - 130			08/25/23 15:10	08/26/23 01:50	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal BTEX	<0.00400	U	0.00400	mg/Kg			08/28/23 10:58	1
Method: SW846 8015 NM - Dies	el Range Organi	ics (DRO) (GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<50.0	U	50.0	mg/Kg			08/25/23 11:26	1
nalyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)					
asoline Range Organics GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/24/23 12:53	08/25/23 02:54	1
iesel Range Organics (Over	<50.0	П	50.0	mg/Kg		08/24/23 12:53	08/25/23 02:54	1
10-C28)	.00.0	Ü	00.0	mg/rtg		00/2 1/20 12:00	00/20/20 02:01	
II Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/24/23 12:53	08/25/23 02:54	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	103		70 - 130			08/24/23 12:53	08/25/23 02:54	1
-Terphenyl	103		70 - 130			08/24/23 12:53	08/25/23 02:54	1

4.99

mg/Kg

08/21/23 15:34

Surrogate Summary

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5114-1	BH01	118	107	
890-5114-1 MS	BH01	112	118	
890-5114-1 MSD	BH01	111	109	
890-5114-2	BH01A	81	85	
890-5114-3	PH01	97	66 S1-	
890-5114-4	PH03	97	73	
890-5114-5	PH04	98	58 S1-	
890-5114-6	PH02	101	60 S1-	
890-5114-7	PH05	102	60 S1-	
LCS 880-61151/1-A	Lab Control Sample	130	117	
LCSD 880-61151/2-A	Lab Control Sample Dup	126	111	
MB 880-61051/5-A	Method Blank	74	90	
MB 880-61151/5-A	Method Blank	75	76	
Surrogate Legend				

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

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5084-A-1-D MS	Matrix Spike	108	98	
890-5084-A-1-E MSD	Matrix Spike Duplicate	103	98	
890-5114-1	BH01	118	109	
890-5114-2	BH01A	123	123	
890-5114-3	PH01	101	104	
890-5114-4	PH03	104	105	
890-5114-5	PH04	99	101	
890-5114-6	PH02	117	116	
890-5114-7	PH05	103	103	
LCS 880-61009/2-A	Lab Control Sample	97	105	
LCSD 880-61009/3-A	Lab Control Sample Dup	103	117	
MB 880-61009/1-A	Method Blank	153 S1+	167 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5114-1 SDG: 03C1558258 Project/Site: Big Eddy Unit 70 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61051/5-A

Matrix: Solid

Analysis Batch: 61057

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61051

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:20	08/25/23 12:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:20	08/25/23 12:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:20	08/25/23 12:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/23 08:20	08/25/23 12:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:20	08/25/23 12:28	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		08/25/23 08:20	08/25/23 12:28	1

MB MB

MD MD

Surrogate Qualifier %Recovery Limits 70 - 130 4-Bromofluorobenzene (Surr) 74 90 70 - 130 1,4-Difluorobenzene (Surr)

Dil Fac Prepared Analyzed 08/25/23 08:20 08/25/23 12:28 08/25/23 08:20 08/25/23 12:28

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61151

Analysis Batch: 61057

Matrix: Solid

Lab Sample ID: MB 880-61151/5-A

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:26	
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:26	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/23 15:10	08/25/23 23:26	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/23 15:10	08/25/23 23:26	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/25/23 15:10	08/25/23 23:26	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	08/25/23 1	5:10	08/25/23 23:26	1
1,4-Difluorobenzene (Surr)	76		70 - 130	08/25/23 1	5:10	08/25/23 23:26	1

Lab Sample ID: LCS 880-61151/1-A

Matrix: Solid

Analysis Batch: 61057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 61151

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08791		mg/Kg		88	70 - 130	
Toluene	0.100	0.1035		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1105		mg/Kg		110	70 - 130	
m-Xylene & p-Xylene	0.200	0.2469		mg/Kg		123	70 - 130	
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	130	70 - 130
1.4-Difluorobenzene (Surr)	117	70 - 130

Lab Sample ID: LCSD 880-61151/2-A

Matrix: Solid

Analysis Batch: 61057

Client Sample ID: Lab	Control Sample Dup
	Draw Times Tetal/NIA

Prep Type: Total/NA

Prep Batch: 61151

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09364		mg/Kg		94	70 - 130	6	35

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Page 13 of 29

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: LCSD 880-61151/2-A

Matrix: Solid Analysis Batch: 61057 Client Sample ID: Lab Control Sample Dup

70 - 130

134

Prep Type: Total/NA Prep Batch: 61151

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.1169 117 70 - 130 35 mg/Kg 12 Ethylbenzene 0.100 0.1215 mg/Kg 121 70 - 130 35 0.200 m-Xylene & p-Xylene 0.2695 *+ mg/Kg 135 70 - 130 9 35

0.1335 *+

mg/Kg

0.100

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-5114-1 MS

Matrix: Solid

o-Xylene

Analysis Batch: 61057

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 61151

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09813		mg/Kg		98	70 - 130	
Toluene	<0.00200	U	0.0996	0.08929		mg/Kg		89	70 - 130	
Ethylbenzene	0.00664	F1	0.0996	0.07559	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	0.0806	*+ F1	0.199	0.2052	F1	mg/Kg		63	70 - 130	
o-Xylene	0.0222	*+ F1	0.0996	0.08877	F1	mg/Kg		67	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	118	70 - 130

Lab Sample ID: 890-5114-1 MSD

Matrix: Solid

Analysis Batch: 61057

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 61151

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.101	0.08505		mg/Kg		83	70 - 130	14	35
Toluene	<0.00200	U	0.101	0.08300		mg/Kg		82	70 - 130	7	35
Ethylbenzene	0.00664	F1	0.101	0.07019	F1	mg/Kg		63	70 - 130	7	35
m-Xylene & p-Xylene	0.0806	*+ F1	0.202	0.1976	F1	mg/Kg		58	70 - 130	4	35
o-Xylene	0.0222	*+ F1	0.101	0.08139	F1	mg/Kg		59	70 - 130	9	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-61009/1-A

Matrix: Solid

Analysis Batch: 60956

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

Prep Batch: 61009

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/24/23 12:51 08/24/23 19:47 (GRO)-C6-C10

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Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: MB 880-61009/1-A

Matrix: Solid

Analysis Batch: 60956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61009

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/24/23 12:51	08/24/23 19:47	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/24/23 12:51	08/24/23 19:47	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130			08/24/23 12:51	08/24/23 19:47	1
o-Terphenyl	167	S1+	70 - 130			08/24/23 12:51	08/24/23 19:47	1

Lab Sample ID: LCS 880-61	ι009/2-Δ						Client	Sample	ID: Lab Control Sample
Matrix: Solid	1003/2-A						Ollellit	Jampie	Prep Type: Total/NA
Analysis Batch: 60956									Prep Batch: 61009
			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics			1000	924.4		mg/Kg		92	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over			1000	850.1		mg/Kg		85	70 - 130
C10-C28)									
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	105		70 - 130						

Matrix: Solid							Prep ⁻	Type: Tot	tal/NA
Analysis Batch: 60956							Prep	Batch:	61009
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.2		mg/Kg		97	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	861.8		mg/Kg		86	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	117		70 - 130

98

Lab Sample ID: 890-5084-A-1-D Matrix: Solid Analysis Batch: 60956	MS				IS MS			Client	Prep T	Matrix Spike type: Total/NA Batch: 61009
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1010	1303		mg/Kg		127	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1010	978.3		mg/Kg		95	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	108		70 - 130							

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70 - 130

o-Terphenyl

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 61009

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	1010	1245		mg/Kg		121	70 - 130	5	20
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	1010	959.7		mg/Kg		93	70 - 130	2	20

C10-C28)

Matrix: Solid

Analysis Batch: 60956

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	98		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-5084-A-1-E MSD

Lab Sample ID: MB 880-60585/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60731

мв мв

	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00 U	5.00	mg/Kg			08/21/23 12:34	1

Lab Sample ID: LCS 880-60585/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 60731

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	255.0	-	mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-60585/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60731

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	256.4		mg/Kg		103	90 - 110	1	20	

Lab Sample ID: 890-5114-1 MS Client Sample ID: BH01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60731

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	53.3	F1	2/10	333 8	F1	ma/Ka		113	90 110	

Lab Sample ID: 890-5114-1 MSD **Client Sample ID: BH01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60731

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	53.3	F1	249	334.7	F1	mg/Kg	_	113	90 - 110	0	20

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

GC VOA

Prep Batch: 61051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-61051/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 61057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	8021B	61151
890-5114-2	BH01A	Total/NA	Solid	8021B	61151
890-5114-3	PH01	Total/NA	Solid	8021B	61151
890-5114-4	PH03	Total/NA	Solid	8021B	61151
890-5114-5	PH04	Total/NA	Solid	8021B	61151
890-5114-6	PH02	Total/NA	Solid	8021B	61151
890-5114-7	PH05	Total/NA	Solid	8021B	61151
MB 880-61051/5-A	Method Blank	Total/NA	Solid	8021B	61051
MB 880-61151/5-A	Method Blank	Total/NA	Solid	8021B	61151
LCS 880-61151/1-A	Lab Control Sample	Total/NA	Solid	8021B	61151
LCSD 880-61151/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61151
890-5114-1 MS	BH01	Total/NA	Solid	8021B	61151
890-5114-1 MSD	BH01	Total/NA	Solid	8021B	61151

Prep Batch: 61151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	5035	-
890-5114-2	BH01A	Total/NA	Solid	5035	
890-5114-3	PH01	Total/NA	Solid	5035	
890-5114-4	PH03	Total/NA	Solid	5035	
890-5114-5	PH04	Total/NA	Solid	5035	
890-5114-6	PH02	Total/NA	Solid	5035	
890-5114-7	PH05	Total/NA	Solid	5035	
MB 880-61151/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61151/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61151/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5114-1 MS	BH01	Total/NA	Solid	5035	
890-5114-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 61278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	Total BTEX	- <u> </u>
890-5114-2	BH01A	Total/NA	Solid	Total BTEX	
890-5114-3	PH01	Total/NA	Solid	Total BTEX	
890-5114-4	PH03	Total/NA	Solid	Total BTEX	
890-5114-5	PH04	Total/NA	Solid	Total BTEX	
890-5114-6	PH02	Total/NA	Solid	Total BTEX	
890-5114-7	PH05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 60956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	8015B NM	61009
890-5114-2	BH01A	Total/NA	Solid	8015B NM	61009
890-5114-3	PH01	Total/NA	Solid	8015B NM	61009
890-5114-4	PH03	Total/NA	Solid	8015B NM	61009

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Page 17 of 29

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

GC Semi VOA (Continued)

Analysis Batch: 60956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-5	PH04	Total/NA	Solid	8015B NM	61009
890-5114-6	PH02	Total/NA	Solid	8015B NM	61009
890-5114-7	PH05	Total/NA	Solid	8015B NM	61009
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015B NM	61009
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61009
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61009
890-5084-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	61009
890-5084-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61009

Prep Batch: 61009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	8015NM Prep	
890-5114-2	BH01A	Total/NA	Solid	8015NM Prep	
890-5114-3	PH01	Total/NA	Solid	8015NM Prep	
890-5114-4	PH03	Total/NA	Solid	8015NM Prep	
890-5114-5	PH04	Total/NA	Solid	8015NM Prep	
890-5114-6	PH02	Total/NA	Solid	8015NM Prep	
890-5114-7	PH05	Total/NA	Solid	8015NM Prep	
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5084-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5084-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Total/NA	Solid	8015 NM	
890-5114-2	BH01A	Total/NA	Solid	8015 NM	
890-5114-3	PH01	Total/NA	Solid	8015 NM	
890-5114-4	PH03	Total/NA	Solid	8015 NM	
890-5114-5	PH04	Total/NA	Solid	8015 NM	
890-5114-6	PH02	Total/NA	Solid	8015 NM	
890-5114-7	PH05	Total/NA	Solid	8015 NM	

Leach Batch: 60585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Soluble	Solid	DI Leach	
890-5114-2	BH01A	Soluble	Solid	DI Leach	
890-5114-3	PH01	Soluble	Solid	DI Leach	
890-5114-4	PH03	Soluble	Solid	DI Leach	
890-5114-5	PH04	Soluble	Solid	DI Leach	
890-5114-6	PH02	Soluble	Solid	DI Leach	
890-5114-7	PH05	Soluble	Solid	DI Leach	
MB 880-60585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5114-1 MS	BH01	Soluble	Solid	DI Leach	
890-5114-1 MSD	BH01	Soluble	Solid	DI Leach	

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HPLC/IC

Lab Sample ID	Olietit Galiipie ib	riep type	WIGHTA	WELLIOU	r rep batcii
890-5114-1	BH01	Soluble	Solid	DI Leach	
890-5114-2	BH01A	Soluble	Solid	DI Leach	
890-5114-3	PH01	Soluble	Solid	DI Leach	
890-5114-4	PH03	Soluble	Solid	DI Leach	
890-5114-5	PH04	Soluble	Solid	DI Leach	
890-5114-6	PH02	Soluble	Solid	DI Leach	
890-5114-7	PH05	Soluble	Solid	DI Leach	
MB 880-60585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5114-1 MS	BH01	Soluble	Solid	DI Leach	
890-5114-1 MSD	BH01	Soluble	Solid	DI Leach	
<u> </u>					

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5114-1
SDG: 03C1558258

HPLC/IC

Analysis Batch: 60731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5114-1	BH01	Soluble	Solid	300.0	60585
890-5114-2	BH01A	Soluble	Solid	300.0	60585
890-5114-3	PH01	Soluble	Solid	300.0	60585
890-5114-4	PH03	Soluble	Solid	300.0	60585
890-5114-5	PH04	Soluble	Solid	300.0	60585
890-5114-6	PH02	Soluble	Solid	300.0	60585
890-5114-7	PH05	Soluble	Solid	300.0	60585
MB 880-60585/1-A	Method Blank	Soluble	Solid	300.0	60585
LCS 880-60585/2-A	Lab Control Sample	Soluble	Solid	300.0	60585
LCSD 880-60585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60585
890-5114-1 MS	BH01	Soluble	Solid	300.0	60585
890-5114-1 MSD	BH01	Soluble	Solid	300.0	60585

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Client: Ensolum Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5114-1

SDG: 03C1558258

Client Sample ID: BH01

Date Collected: 08/16/23 09:35 Date Received: 08/16/23 16:44 Lab Sample ID: 890-5114-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/25/23 23:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 00:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60585	08/18/23 15:24	СН	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 14:27	CH	EET MID

Lab Sample ID: 890-5114-2

Matrix: Solid

Matrix: Solid

Date Collected: 08/16/23 10:10 Date Received: 08/16/23 16:44

Client Sample ID: BH01A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/26/23 00:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 00:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60585	08/18/23 15:24	СН	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 14:47	CH	EET MID

Client Sample ID: PH01 Lab Sample ID: 890-5114-3

Date Collected: 08/16/23 12:00 Date Received: 08/16/23 16:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/26/23 00:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 01:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60585	08/18/23 15:24	CH	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 14:54	CH	EET MID

Client Sample ID: PH03 Lab Sample ID: 890-5114-4 Date Collected: 08/16/23 12:15 **Matrix: Solid**

Date Received: 08/16/23 16:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/26/23 00:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID

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Page 20 of 29

Lab Chronicle

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5114-1

SDG: 03C1558258

Client Sample ID: PH03

Date Collected: 08/16/23 12:15 Date Received: 08/16/23 16:44 Lab Sample ID: 890-5114-4

Matrix: Solid

Matrix: Solid

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 01:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60585	08/18/23 15:24	CH	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 15:14	CH	EET MID

Client Sample ID: PH04 Lab Sample ID: 890-5114-5

Date Collected: 08/16/23 12:50 Date Received: 08/16/23 16:44

Batch Batch Dil Initial Final Batch Prepared Method Amount Number **Prep Type** Type Run Factor Amount or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 61151 08/25/23 15:10 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 61057 08/26/23 01:09 SM **EET MID** 1 Total BTEX Total/NA Analysis 1 61278 08/28/23 10:58 SM **EET MID** Total/NA 8015 NM 61132 08/25/23 11:26 SM **EET MID** Analysis Total/NA Prep 8015NM Prep 9.96 g 10 mL 61009 08/24/23 12:53 TKC **EET MID** Total/NA 8015B NM 60956 08/25/23 02:11 SM **EET MID** Analysis 1 uL 1 uL Soluble Leach DI Leach 5.03 g 50 mL 60585 08/18/23 15:24 CH **EET MID**

Client Sample ID: PH02

Date Collected: 08/16/23 14:20

Lab Sample ID: 890-5114-6

Matrix: Solid

10 mL

10 mL

60731

08/21/23 15:20

СН

1

Date Received: 08/16/23 16:44

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/26/23 01:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 02:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60585	08/18/23 15:24	CH	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 15:27	CH	EET MID

Client Sample ID: PH05 Lab Sample ID: 890-5114-7

Date Collected: 08/16/23 15:15 Date Received: 08/16/23 16:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61151	08/25/23 15:10	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61057	08/26/23 01:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61278	08/28/23 10:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			61132	08/25/23 11:26	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	61009 60956	08/24/23 12:53 08/25/23 02:54	TKC SM	EET MID EET MID

Eurofins Carlsbad

Page 21 of 29

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-5114-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: PH05 Lab Sample ID: 890-5114-7 Date Collected: 08/16/23 15:15

Matrix: Solid

Date Received: 08/16/23 16:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	60585	08/18/23 15:24	СН	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	60731	08/21/23 15:34	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 Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-24	
		ELAP	T104704400-23-26		
The following analytes	are included in this report, but	it the laboratory is not cortifi	ed by the governing authority. This list ma	v include analytee for	
the agency does not of	• '	it the laboratory is not certifi	ed by the governing admonty. This list his	ay include analytes for	
,	• '	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,	ay include analytes for	

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Method Summary

Client: Ensolum Job ID: 890-5114-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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
3015NM 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

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Sample Summary

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5114-1

SDG: 03C1558258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5114-1	BH01	Solid	08/16/23 09:35	08/16/23 16:44	0.5
890-5114-2	BH01A	Solid	08/16/23 10:10	08/16/23 16:44	3
890-5114-3	PH01	Solid	08/16/23 12:00	08/16/23 16:44	3
890-5114-4	PH03	Solid	08/16/23 12:15	08/16/23 16:44	2
890-5114-5	PH04	Solid	08/16/23 12:50	08/16/23 16:44	3
890-5114-6	PH02	Solid	08/16/23 14:20	08/16/23 16:44	3
890-5114-7	PH05	Solid	08/16/23 15:15	08/16/23 16:44	3

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 Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471

eurofins :

56789

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Chain of Custody

City, State ZIP: ompany Name roject Manager ddress: 3122 National Envolum Str. DEGINE 89-854-0852 Xenco Be : **Environment Testing** 23 Parks Hwu 88220 Email: Carrett. Bill to: (if different) City, State ZIP: Company Name: 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 Greinle Exxon Mobil. Com Carlshad, NM 88220 carrett Eneva aveen Program: UST/PST PRP Brownfields Deliverables: Reporting: Level III | Level III | PST/UST | TRRP | State of Project: EDO L Work Order Comments ADaPT 🗆

SAMPLE RECEIPT

emp Blank: Yes

No

Wet ice:

Parameters

No

hermometer ID:

Correction Factor:

Temperature Reading: Corrected Temperature:

Chlorides

BTEX

TPH

890-5114 Chain of Custody

Na₂S₂O₃: NaSO NaHSO 4: NABIS H PO : HP H2SO 4: H2 HCL: HC

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn

Sample Comments

ncident#

VA PP2 318 13 95 30 ost center: 135891007

mples Received Intact:

ample Custody Seals: ooler Custody Seals:

Yes No

Sample Identification

Matrix

Sampled

Sampled

4: 75

Date

Time

Depth

of

Comp Grab/

J

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PHO1A

PHOH

THO!

DC: HT

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Ben

Belill:

obelilleensdum

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2.50 2.15

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PHOS

Sampler's Name:

Mariaha

0.0611

TAT starts the day received by

the lab, if received by 4:30pm

roject Number roject Name:

Big Eddy Unit To Bath vs

32.45034,-104.05469

Due Date:

5 days

Routine

Rush

Code

ANALYSIS REQUEST

Cool: Cool None: NO

MeOH: Me

HNO 3: HN

NaOH: Na

Preservative Codes

DI Water: H2O

Other:

Level IV

RRC _

Superfund 🗌

Turn Around

Work Order No:_

Circle Method(s) and Metal(s) to be analyzed 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 tities. 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 condition Relinquished by: (Signature) ofins 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 negotiates Received by: (Signature) TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 16-23/10 Date/Time Relinquished by: (Signature) Received by: (Signature) sed Date: 08/25/2020 Rev. 2020 Date/Time

Carlsbad, NM 88220

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Eurofins Carlsbad 1089 N Canal St.

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Chain of Custody Record

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Environment Testing

Midland State, Zip TX, 79701 BH01A (890-5114-2) BH01 (890-5114-1) Sample Identification - Client ID (Lab ID) Big Eddy Unit 70 Battery Eurofins Environment Testing South Centr Shipping/Receiving Phone: 575-988-3199 Fax: 575-988-3199 Empty Kit Relinquished by: Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. PH05 (890-5114-7) PH02 (890-5114-6) PH04 (890-5114-5) PH03 (890-5114-4) PH01 (890-5114-3) 132-704-5440(Tel) Client Information 211 W. Florida Ave, Deliverable Requested: I, II, III, IV, Other (specify) Possible Hazard Identification elinquished by: elinquished by ent Contact elinquished by: nconfirmed Custody Seals Intact: ject Name Yes S 6 (Sub Contract Lab) Custody Seal No. WO # PO# TAT Requested (days) Due Date Requested: 8/22/2023 Phone #WOSS 89000093 Primary Deliverable Rank: Date/Time Date/Time Sample Date roject #: 8/16/23 8/16/23 8/16/23 8/16/23 8/16/23 8/16/23 8/16/23 Mountain 12:00 Mountain 12:50 Mountain 12:15 Mountain 15:15 Mountain 14:20 Mountain 10:10 Date Mountain Sample 09:35 Time (C=comp, Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Lab PM: Kramer, Jessica Jessica.Kramer@et.eurofinsus.com Field Filtered Sample (Yes or No) **NELAP** - Texas Ime: Accreditations Required (See note) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × × × × × × × Received by 8015MOD_Cald × × × × × × × 300 ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/6036FP_Calc (MOD) BTEX × × × × × × **Analysis Requested** × × Total_BTEX_GCV × × × Disposal By Lab State of Origin: New Mexico Carrier Tracking No(s): Date/Time Total Number of containers J - DI Water K - EDTA B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid Page 1 of 1 COC No: 890-1440.1 A-HCL Preservation Codes: L-EDA 890-5114-1 Special Instructions/Note: 6 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 U - Acetone V - MCAA W - pH 4-5 Y - Trizma S - H2SO4 T - TSP Dodecahydrate Z - other (specify) Ver: 06/08/2021 Months

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-5114-1

 SDG Number: 03C1558258

Login Number: 5114 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5114-1 SDG Number: 03C1558258

> **List Source: Eurofins Midland** List Creation: 08/18/23 11:00 AM

Creator: Kramer, Jessica

Login Number: 5114

List Number: 2

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/28/2023 9:49:32 PM

JOB DESCRIPTION

Big Eddy Unit 70 Battery SDG NUMBER 03C1558258

JOB NUMBER

890-5123-1

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 8/28/2023 9:49:32 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 24

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Laboratory Job ID: 890-5123-1
SDG: 03C1558258

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

9	

Definitions/Glossary

Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

HPLC/IC

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

Glossary

EDL

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

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Estimated Detection Limit (Dioxin)

Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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 Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Job ID: 890-5123-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5123-1

Receipt

The samples were received on 8/17/2023 1:49 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 3.2° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-5123-1), FS02 (890-5123-2), SW01 (890-5123-3) and SW02 (890-5123-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-61050/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61031 and analytical batch 880-61042 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-5113-A-21-B), (890-5113-A-21-C MS) and (890-5113-A-21-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-5123-1), FS02 (890-5123-2), SW01 (890-5123-3) and SW02 (890-5123-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61042/31), (CCV 880-61042/47), (CCV 880-61042/58), (LCS 880-61031/2-A) and (LCSD 880-61031/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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1 1

4.0

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: FS01

Lab Sample ID: 890-5123-1

Date Collected: 08/17/23 10:40 Date Received: 08/17/23 13:49

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/25/23 08:38	08/26/23 07:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			08/25/23 08:38	08/26/23 07:20	1
1,4-Difluorobenzene (Surr)	110		70 - 130			08/25/23 08:38	08/26/23 07:20	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg		·	08/28/23 10:57	1
Method: SW846 8015 NM - Diese			•	Unit	D	Dranavad	Analyzad	Dil Eco
Analyte	Result	ics (DRO) (Gualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
			•	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 08/28/23 22:20	
Analyte	Result 50.8	Qualifier	RL 50.1		<u>D</u>	Prepared		
Analyte Total TPH	Result 50.8	Qualifier	RL 50.1		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result 50.8	Qualifier nics (DRO) Qualifier	RL 50.1	mg/Kg	_ =	<u> </u>	08/28/23 22:20	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 50.8 sel Range Orga	Qualifier nics (DRO) Qualifier	RL	mg/Kg	_ =	Prepared	08/28/23 22:20 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 50.8 sel Range Orga Result < 50.1	Qualifier nics (DRO) Qualifier U	(GC) RL 50.1	mg/Kg Unit mg/Kg	_ =	Prepared 08/24/23 16:34	08/28/23 22:20 Analyzed 08/26/23 02:42	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 50.8 sel Range Orga Result <50.1 50.8	Qualifier nics (DRO) Qualifier U	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/24/23 16:34 08/24/23 16:34	08/28/23 22:20 Analyzed 08/26/23 02:42 08/26/23 02:42	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier nics (DRO) Qualifier U	RL 50.1 (GC) RL 50.1 50.1	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/24/23 16:34 08/24/23 16:34 08/24/23 16:34	08/28/23 22:20 Analyzed 08/26/23 02:42 08/26/23 02:42 08/26/23 02:42	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier nics (DRO) Qualifier U	RL 50.1 (GC) RL 50.1 50.1 50.1 Limits	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/24/23 16:34 08/24/23 16:34 08/24/23 16:34 Prepared	08/28/23 22:20 Analyzed 08/26/23 02:42 08/26/23 02:42 08/26/23 02:42 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier nics (DRO) Qualifier U Qualifier S1+	RL 50.1 (GC) RL 50.1 50.1 50.1 <u>Limits</u> 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/24/23 16:34 08/24/23 16:34 08/24/23 16:34 Prepared 08/24/23 16:34	08/28/23 22:20 Analyzed 08/26/23 02:42 08/26/23 02:42 Analyzed 08/26/23 02:42	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier nics (DRO) Qualifier U Qualifier S1+	RL 50.1 (GC) RL 50.1 50.1 50.1 <u>Limits</u> 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 08/24/23 16:34 08/24/23 16:34 08/24/23 16:34 Prepared 08/24/23 16:34	08/28/23 22:20 Analyzed 08/26/23 02:42 08/26/23 02:42 Analyzed 08/26/23 02:42	1 Dil Fac

Client Sample ID: FS02 Lab Sample ID: 890-5123-2

Date Collected: 08/17/23 09:40 Date Received: 08/17/23 13:49

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/25/23 08:38	08/26/23 07:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			08/25/23 08:38	08/26/23 07:41	1

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-5123-1

Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: FS02 Lab Sample ID: 890-5123-2 Date Collected: 08/17/23 09:40

Matrix: Solid

Sample Depth: 1

Date Received: 08/17/23 13:49

Method: SW846 8021B - Volatile (Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	111		70 - 130	08/25/23 08:38	08/26/23 07:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualific		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			08/28/23 10:57	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	716	49.8	mg/Kg			08/28/23 22:20	1

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

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Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<49.8	U	49.8	mg/Kg		08/24/23 16:34	08/26/23 03:03	1
716		49.8	mg/Kg		08/24/23 16:34	08/26/23 03:03	1
S) <49.8	U	49.8	mg/Kg		08/24/23 16:34	08/26/23 03:03	1
	Result <49.8 716	Result Qualifier	Result Qualifier RL <49.8	Result Qualifier RL Unit mg/Kg <49.8	Result Qualifier RL Unit mg/Kg D mg/Kg 716 49.8 mg/Kg	Result 49.8 Qualifier RL 49.8 Unit mg/Kg D 08/24/23 16:34 716 49.8 mg/Kg 08/24/23 16:34	Result 49.8 Qualifier RL 49.8 Unit mg/Kg D 08/24/23 16:34 Prepared 08/26/23 03:03 716 49.8 mg/Kg 08/24/23 16:34 08/26/23 03:03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130	08/24/23 16:34	08/26/23 03:03	1
o-Terphenyl	99		70 - 130	08/24/23 16:34	08/26/23 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.2	5.04	mg/Kg			08/22/23 23:29	1

Client Sample ID: SW01 Lab Sample ID: 890-5123-3

Date Collected: 08/17/23 09:45 Date Received: 08/17/23 13:49

Sample Depth: 0 - 3

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/25/23 08:38	08/26/23 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			08/25/23 08:38	08/26/23 08:02	1
1,4-Difluorobenzene (Surr)	116		70 - 130			08/25/23 08:38	08/26/23 08:02	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	ma/Ka			08/28/23 10:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1740		49.9	mg/Kg			08/28/23 22:20	1

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Matrix: Solid

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-5123-1

Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SW01 Lab Sample ID: 890-5123-3 Date Collected: 08/17/23 09:45 Date Received: 08/17/23 13:49

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/24/23 16:34	08/26/23 03:25	1
Diesel Range Organics (Over C10-C28)	1740		49.9	mg/Kg		08/24/23 16:34	08/26/23 03:25	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/24/23 16:34	08/26/23 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130			08/24/23 16:34	08/26/23 03:25	1
o-Terphenyl	101		70 - 130			08/24/23 16:34	08/26/23 03:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyta	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte								

Lab Sample ID: 890-5123-4 **Client Sample ID: SW02**

Date Collected: 08/17/23 10:15 **Matrix: Solid**

Date Received: 08/17/23 13:49

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		08/25/23 08:38	08/26/23 08:23	
Toluene	0.00218		0.00202	mg/Kg		08/25/23 08:38	08/26/23 08:23	1
Ethylbenzene	0.00683		0.00202	mg/Kg		08/25/23 08:38	08/26/23 08:23	1
m-Xylene & p-Xylene	0.263		0.00403	mg/Kg		08/25/23 08:38	08/26/23 08:23	1
o-Xylene	0.0933		0.00202	mg/Kg		08/25/23 08:38	08/26/23 08:23	1
Xylenes, Total	0.356		0.00403	mg/Kg		08/25/23 08:38	08/26/23 08:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			08/25/23 08:38	08/26/23 08:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/25/23 08:38	08/26/23 08:23	1
Total BTEX	0.365		0.00403	mg/Kg			08/28/23 10:57	
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (mg/Kg		Prepared	08/28/23 10:57 Analyzed	
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	l Range Organ		GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	I Range Organ Result 1980	Qualifier	GC) RL 50.4	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result 1980 sel Range Orga	Qualifier	GC) RL 50.4	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result 1980 sel Range Orga	Qualifier nics (DRO)	GC) RL 50.4	<mark>Unit</mark> mg/Kg			Analyzed 08/28/23 22:20	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	I Range Organ Result 1980 sel Range Orga Result	Qualifier nics (DRO)	GC)	Unit mg/Kg		Prepared	Analyzed 08/28/23 22:20 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result 1980 sel Range Orga Result 214	Qualifier nics (DRO) Qualifier	GC) RL 50.4 (GC) RL 50.4	Unit mg/Kg Unit mg/Kg		Prepared 08/24/23 16:34	Analyzed 08/28/23 22:20 Analyzed 08/26/23 03:46	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ Result 1980 sel Range Orga Result 214 1770	Qualifier nics (DRO) Qualifier	GC) RL 50.4 (GC) RL 50.4 50.4	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 16:34 08/24/23 16:34	Analyzed 08/28/23 22:20 Analyzed 08/26/23 03:46 08/26/23 03:46	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 1980 sel Range Orga Result 214 1770 <50.4	Qualifier nics (DRO) Qualifier	GC) RL 50.4 (GC) RL 50.4 50.4 50.4	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/24/23 16:34 08/24/23 16:34 08/24/23 16:34	Analyzed 08/28/23 22:20 Analyzed 08/26/23 03:46 08/26/23 03:46	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample Results

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SW02 Lab Sample ID: 890-5123-4

Date Collected: 08/17/23 10:15 Matrix: Solid
Date Received: 08/17/23 13:49

Sample Depth: 0 - 3

I	Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble						
Δ	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C	Chloride	186		5.00	mg/Kg			08/22/23 23:40	1

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Surrogate Summary

Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-32541-A-1-A MS	Matrix Spike	86	103	
880-32541-A-1-B MSD	Matrix Spike Duplicate	101	111	
890-5123-1	FS01	83	110	
890-5123-2	FS02	82	111	
890-5123-3	SW01	82	116	
890-5123-4	SW02	128	91	
LCS 880-61053/1-A	Lab Control Sample	93	109	
LCSD 880-61053/2-A	Lab Control Sample Dup	98	107	
MB 880-61050/5-A	Method Blank	66 S1-	101	
MB 880-61053/5-A	Method Blank	73	98	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5113-A-21-C MS	Matrix Spike	138 S1+	97	
890-5113-A-21-D MSD	Matrix Spike Duplicate	138 S1+	95	
890-5123-1	FS01	139 S1+	102	
890-5123-2	FS02	140 S1+	99	
890-5123-3	SW01	138 S1+	101	
890-5123-4	SW02	166 S1+	118	
LCS 880-61031/2-A	Lab Control Sample	137 S1+	123	
LCSD 880-61031/3-A	Lab Control Sample Dup	143 S1+	115	
MB 880-61031/1-A	Method Blank	254 S1+	200 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-61050/5-A

Analysis Batch: 61058

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 61050

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/25/23 08:09	08/25/23 13:29	1
	MP	MD						

MB MB %Recovery Qualifier Prepared Dil Fac Surrogate Limits Analyzed 70 - 130 08/25/23 08:09 08/25/23 13:29 4-Bromofluorobenzene (Surr) 66 S1-08/25/23 08:09 1,4-Difluorobenzene (Surr) 101 70 - 130 08/25/23 13:29

Lab Sample ID: MB 880-61053/5-A

Matrix: Solid

Analysis Batch: 61058

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 61053

MR MR Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 08/25/23 08:38 08/26/23 00:27 Toluene <0.00200 U 0.00200 mg/Kg 08/25/23 08:38 08/26/23 00:27 Ethylbenzene <0.00200 U 0.00200 08/25/23 08:38 08/26/23 00:27 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/25/23 08:38 08/26/23 00:27 o-Xylene <0.00200 U 0.00200 mg/Kg 08/25/23 08:38 08/26/23 00:27 Xylenes, Total <0.00400 U 0.00400 08/25/23 08:38 08/26/23 00:27 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	08/25/23	3 08:38	08/26/23 00:27	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/25/23	8 08:38	08/26/23 00:27	1

Lab Sample ID: LCS 880-61053/1-A

Matrix: Solid

Analysis Batch: 61058

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

Prep Batch: 61053

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	
Toluene	0.100	0.1034		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.09020		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130	
o-Xylene	0.100	0.09754		mg/Kg		98	70 - 130	

LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 93 70 - 130 1,4-Difluorobenzene (Surr) 109 70 - 130

Lab Sample ID: LCSD 880-61053/2-A

Matrix: Solid

Analysis Batch: 61058

Client Sample ID: Lab	Control Sample Dup
	Dren Times Tetal/NIA

Prep Type: Total/NA

Prep Batch: 61053

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09801	mg/Kg		98	70 - 130	5	35	

Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: LCSD 880-61053/2-A **Matrix: Solid**

Analysis Batch: 61058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 61053

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.09536		mg/Kg		95	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2085		mg/Kg		104	70 - 130	7	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-32541-A-1-A MS

Matrix: Solid

Analysis Batch: 61058

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

Prep Batch: 61053

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.101	0.08185		mg/Kg		81	70 - 130	
Toluene	<0.00198	U	0.101	0.08498		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00198	U	0.101	0.07343		mg/Kg		73	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.202	0.1555		mg/Kg		77	70 - 130	
o-Xylene	<0.00198	U	0.101	0.07817		mg/Kg		78	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 880-32541-A-1-B MSD

Matrix: Solid

Analysis Batch: 61058

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 61053

Analysis Batch. 01000									1 100	Dateii.	31000
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0998	0.09779		mg/Kg		98	70 - 130	18	35
Toluene	<0.00198	U	0.0998	0.1035		mg/Kg		104	70 - 130	20	35
Ethylbenzene	<0.00198	U	0.0998	0.09019		mg/Kg		90	70 - 130	20	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1915		mg/Kg		96	70 - 130	21	35
o-Xylene	<0.00198	U	0.0998	0.09597		mg/Kg		96	70 - 130	20	35

MSD MSD

MD MD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-61031/1-A

Matrix: Solid

Analysis Batch: 61042

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

Prep Batch: 61031

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/24/23 16:34	08/25/23 20:41	1
(GRO)-C6-C10								

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: MB 880-61031/1-A

Matrix: Solid

Analysis Batch: 61042

MB MB

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61031

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/24/23 16:34	08/25/23 20:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/24/23 16:34	08/25/23 20:41	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	254	S1+	70 - 130			08/24/23 16:34	08/25/23 20:41	1
o-Terphenyl	200	S1+	70 - 130			08/24/23 16:34	08/25/23 20:41	1

Lab Sample ID: LCS 880-61031/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 61042 Prep Batch: 61031 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1036 104 70 - 130 mg/Kg (GRO)-C6-C10 1000 1045 Diesel Range Organics (Over mg/Kg 104 70 - 130 C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane S1+ 70 - 130 137 o-Terphenyl 123 70 - 130

Lab Sample ID: LCSD 880-61031/3-A

Matrix: Solid

Analysis Batch: 61042

Spike

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61031
Spike

LCSD LCSD

KRec
RPD

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1045		mg/Kg		104	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1019		mg/Kg		102	70 - 130	3	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-5113-A-21-C MS

Matrix: Solid

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

Analysis Batch: 61042 Prep Batch: 61031

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	1010	954.4		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.2	U	1010	1122		mg/Kg		109	70 - 130	

010-020)			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenvl	97		70 - 130

Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: 890-5113-A-21-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 61042 Prep Batch: 61031

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.2	U	1010	968.6		mg/Kg		92	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.2	U	1010	1119		mg/Kg		109	70 - 130	0	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	95		70 - 130

MR MR

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60728/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60835

Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			08/22/23 20:56	1

Lab Sample ID: LCS 880-60728/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 60835

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	253.0		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-60728/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60835

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.8		mg/Kg		103	90 - 110	2	20	

Lab Sample ID: 890-5121-A-4-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 60835

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	573		1260	1792		mg/Kg		97	90 - 110	

Lab Sample ID: 890-5121-A-4-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 60835

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier %Rec Analyte Limits RPD Limit Unit D 1260 Chloride 573 1774 90 - 110 mg/Kg

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

GC VOA

Prep Batch: 61050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-61050/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 61053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-5123-1	FS01	Total/NA	Solid	5035	
890-5123-2	FS02	Total/NA	Solid	5035	
890-5123-3	SW01	Total/NA	Solid	5035	
890-5123-4	SW02	Total/NA	Solid	5035	
MB 880-61053/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61053/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61053/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-32541-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-32541-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 61058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-1	FS01	Total/NA	Solid	8021B	61053
890-5123-2	FS02	Total/NA	Solid	8021B	61053
890-5123-3	SW01	Total/NA	Solid	8021B	61053
890-5123-4	SW02	Total/NA	Solid	8021B	61053
MB 880-61050/5-A	Method Blank	Total/NA	Solid	8021B	61050
MB 880-61053/5-A	Method Blank	Total/NA	Solid	8021B	61053
LCS 880-61053/1-A	Lab Control Sample	Total/NA	Solid	8021B	61053
LCSD 880-61053/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61053
880-32541-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	61053
880-32541-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	61053

Analysis Batch: 61277

Lab Sample ID 890-5123-1	Client Sample ID FS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-5123-1	FS02	Total/NA	Solid	Total BTEX	
890-5123-3	SW01	Total/NA	Solid	Total BTEX	
890-5123-4	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 61031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-1	FS01	Total/NA	Solid	8015NM Prep	
890-5123-2	FS02	Total/NA	Solid	8015NM Prep	
890-5123-3	SW01	Total/NA	Solid	8015NM Prep	
890-5123-4	SW02	Total/NA	Solid	8015NM Prep	
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5113-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5113-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-1	FS01	Total/NA	Solid	8015B NM	61031

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Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

GC Semi VOA (Continued)

Analysis Batch: 61042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-2	FS02	Total/NA	Solid	8015B NM	61031
890-5123-3	SW01	Total/NA	Solid	8015B NM	61031
890-5123-4	SW02	Total/NA	Solid	8015B NM	61031
MB 880-61031/1-A	Method Blank	Total/NA	Solid	8015B NM	61031
LCS 880-61031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61031
LCSD 880-61031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61031
890-5113-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	61031
890-5113-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	61031

Analysis Batch: 61403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-5123-1	FS01	Total/NA	Solid	8015 NM
890-5123-2	FS02	Total/NA	Solid	8015 NM
890-5123-3	SW01	Total/NA	Solid	8015 NM
890-5123-4	SW02	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 60728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-1	FS01	Soluble	Solid	DI Leach	
890-5123-2	FS02	Soluble	Solid	DI Leach	
890-5123-3	SW01	Soluble	Solid	DI Leach	
890-5123-4	SW02	Soluble	Solid	DI Leach	
MB 880-60728/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60728/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60728/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5121-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5121-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 60835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5123-1	FS01	Soluble	Solid	300.0	60728
890-5123-2	FS02	Soluble	Solid	300.0	60728
890-5123-3	SW01	Soluble	Solid	300.0	60728
890-5123-4	SW02	Soluble	Solid	300.0	60728
MB 880-60728/1-A	Method Blank	Soluble	Solid	300.0	60728
LCS 880-60728/2-A	Lab Control Sample	Soluble	Solid	300.0	60728
LCSD 880-60728/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60728
890-5121-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	60728
890-5121-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	60728

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Client: Ensolum Job ID: 890-5123-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: FS01 Lab Sample ID: 890-5123-1

Date Collected: 08/17/23 10:40 **Matrix: Solid** Date Received: 08/17/23 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	61053	08/25/23 08:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61058	08/26/23 07:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61277	08/28/23 10:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61403	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 02:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60728	08/21/23 11:57	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60835	08/22/23 23:23	CH	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-5123-2

Date Collected: 08/17/23 09:40 Date Received: 08/17/23 13:49

Dil Final Batch Batch Initial Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 5.03 g Total/NA 5 mL 61053 08/25/23 08:38 EL EET MID Total/NA 8021B Analysis 1 5 mL 5 mL 61058 08/26/23 07:41 AJ EET MID Total/NA Total BTEX 61277 08/28/23 10:57 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 61403 08/28/23 22:20 SM **EET MID** 10.05 g 61031 Total/NA 8015NM Prep 08/24/23 16:34 TKC **EET MID** Prep 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 61042 08/26/23 03:03 SM **EET MID** Soluble DI Leach 4.96 g 50 mL 60728 08/21/23 11:57 SMC **EET MID** Leach Soluble Analysis 300.0 50 mL 50 mL 60835 08/22/23 23:29 СН **EET MID**

Client Sample ID: SW01 Lab Sample ID: 890-5123-3 Date Collected: 08/17/23 09:45

Date Received: 08/17/23 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	61053	08/25/23 08:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61058	08/26/23 08:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61277	08/28/23 10:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			61403	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 03:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60728	08/21/23 11:57	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60835	08/22/23 23:34	CH	EET MID

Client Sample ID: SW02 Lab Sample ID: 890-5123-4

Date Collected: 08/17/23 10:15 Date Received: 08/17/23 13:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	61053	08/25/23 08:38	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61058	08/26/23 08:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			61277	08/28/23 10:57	AJ	EET MID

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Matrix: Solid

Page 17 of 24

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: SW02 Lab Sample ID: 890-5123-4

Date Collected: 08/17/23 10:15
Date Received: 08/17/23 13:49

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61403	08/28/23 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	61031	08/24/23 16:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61042	08/26/23 03:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60728	08/21/23 11:57	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60835	08/22/23 23:40	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 Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-23-26	06-30-24
The following analytes	are included in this report, bι	ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo
the agency does not of	fer certification.			,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum Job ID: 890-5123-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

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Sample Summary

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5123-1

SDG: 03C1558258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5123-1	FS01	Solid	08/17/23 10:40	08/17/23 13:49	3
890-5123-2	FS02	Solid	08/17/23 09:40	08/17/23 13:49	1
890-5123-3	SW01	Solid	08/17/23 09:45	08/17/23 13:49	0 - 3
890-5123-4	SW02	Solid	08/17/23 10:15	08/17/23 13:49	0 - 3

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Environment Testing

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Belli

Bill to: (if different)

Chain of Custody

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-344 Hobbs, NM (575) 392-755 Houston, TX (281) 240-4200,

100, Dallas, IA (214) 302-0300		
, San Antonio, TX (210) 509-3334	Work Order No:	i
3, Lubbock, TX (806) 794-1296		
0, Carlsbad, NM (575) 988-3199	_	-
	www.xenco.com Page 1 of 1	
rett Green	Work Order Comments	
) Energy	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	erfund 🗌
+ E. Greene St	State of Project:	
		1

Circle Method(s) and Metal(s) to be analyzed SAMPLE RECEIPT Cooler Custody Seals: City, State ZIP: Address: ampler's Name: ample Custody Seals: amples Received Intact: ompany Name: roject Number: oject Location: Relinquished by: (Signature) Total 200.7 / 6010 ofins 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 :: Signature of this document and relinquishment of samples constitutes a vaild purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions are. 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 FSOI SIMO SMO FSO2 Sample Identification 32 H5634 - 104 OSHOQ Big Eddy Unit 70 Battery Mariana O' Dell 3122 National Parks Hw Ensolum, LLC arisbad, NM C1558258 Yes No Yes No 200.8 / 6020: -854emp Blank: S O Matrix S Ye No Correction Factor: Thermometer ID: 3 Received by: (Signature) Sampled Corrected Temperature: Temperature Reading: Date 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Due Date: Sampled TAT starts the day received by the lab, if received by 4:30pm Routine 10:15 コートワ 10:40 Wet Ice: Time TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Email: Turn Around 5 days Address: てでのい Depth City, State ZIP: Company Name: Rush Garrett. O No Comp Grab/ < Cont # of Code **Parameters** GURRALD 5 P. 1.1. Date/Time Chlorides YAY! TPH Sbad, NM 88220 ExxonMubil.com 12 P BTEX 4 Relinquished by: (Signature) 890-5123 Chain of Custody ANALYSIS REQUEST Reporting: Level II | Level III | PST/UST | TRRP | Level IV | Deliverables: ス Se Received by: (Signature) EDD [Hg: 1631 / 245.1 / 7470 / 7471 Ag SiO₂ Na Sr Tl Sn U V Zn ADaPT [] Mariaha O'Dell H₃PO₄: HP H2S0 4: H2 None: NO pbelilleensolum. Ben Belill: NAPP 2318139530 NaOH+Ascorbic Acid: SAPC Na 2S 2O 3: NaSO 3 NaHSO 4: NABIS HCL: HC Cool: Cool modelle ensolum Zn Acetate+NaOH: Zn Cost center: nciden+#: 135891001 Preservative Codes Sample Comments Revised Date: 08/25/2020 Rev. 2020.2 Other: Date/Time МеОН: Ме DI Water: H₂O NaOH: Na HNO 3: HN COM

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-5123-1

 SDG Number: 03C1558258

Login Number: 5123 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	

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8/28/2023

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5123-1 SDG Number: 03C1558258

Login Number: 5123 **List Source: Eurofins Midland** List Number: 2 List Creation: 08/21/23 08:51 AM

Creator: Rodriguez, Leticia

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	N/A	

Eurofins Carlsbad

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 9/19/2023 4:07:03 PM Revision 2

JOB DESCRIPTION

BIG EDDY UNIT 70 BATTERY SDG NUMBER 03C1558258

JOB NUMBER

890-5239-1

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 9/19/2023 4:07:03 PM Revision 2

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

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Client: Ensolum Project/Site: BIG EDDY UNIT 70 BATTERY Laboratory Job ID: 890-5239-1 SDG: 03C1558258

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

3

4

6

9

10

12

13

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Definitions/Glossary

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY

SDG: 03C1558258

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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 Job ID: 890-5239-1

Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Job ID: 890-5239-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5239-1

REVISION

The report being provided is a revision of the original report sent on 9/15/2023. The report (revision 2) is being revised due to Per client email, requesting sample depth be corrected to 0-3'.

Report revision history

Revision 1 - 9/19/2023 - Reason - Per client email, requesting TPH re run on FS02A.

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.

The samples were received on 9/11/2023 2:58 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: FS02A (890-5239-1) and SW03 (890-5239-2).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-62353 and analytical batch 880-62372 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 880-62371 and analytical batch 880-62395 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-62395/20), (CCV 880-62395/31), (CCV 880-62395/5) and (LCS 880-62371/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS02A (890-5239-1), SW03 (890-5239-2), (880-33190-A-1-B), (880-33190-A-1-C MS) and (880-33190-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Carlsbad 9/19/2023 (Rev. 2)

Page 5 of 21

Matrix: Solid

Client: Ensolum

Job ID: 890-5239-1

Project/Site: BIG EDDY UNIT 70 BATTERY

SDG: 03C1558258

Project/Site: BIG EDDY UNIT 70 BATTERY

SDG: 03C1558258

Client Sample ID: FS02A

Lab Sample ID: 890-5239-1

Date Collected: 09/11/23 12:30
Date Received: 09/11/23 14:58

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
Toluene	0.00618		0.00199	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
Ethylbenzene	0.00730		0.00199	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
m-Xylene & p-Xylene	0.0220		0.00398	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
o-Xylene	0.0109		0.00199	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
Xylenes, Total	0.0329		0.00398	mg/Kg		09/13/23 15:40	09/13/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/13/23 15:40	09/13/23 23:33	1
1,4-Difluorobenzene (Surr)	76		70 - 130			09/13/23 15:40	09/13/23 23:33	1
Method: TAL SOP Total BTEX	(- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	0.0464 esel Range (Organics (0.00398 DRO) (GC)	mg/Kg			09/14/23 15:21	1
Total BTEX Method: SW846 8015 NM - Di Analyte	esel Range (Organics (Qualifier	DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Di	esel Range (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Di Analyte	esel Range (Result	Qualifier	DRO) (GC) RL 49.6	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH	esel Range (Result 158 Diesel Range Result	Qualifier Organics Qualifier	DRO) (GC) RL 49.6	Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I	esel Range (Result 158 Diesel Range	Qualifier Organics Qualifier	DRO) (GC) RL 49.6	Unit mg/Kg	_ =	·	Analyzed 09/19/23 00:02	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range (Result 158 Diesel Range Result	Qualifier Organics Qualifier	DRO) (GC) RL 49.6 (DRO) (GC) RL	Unit mg/Kg	_ =	Prepared	Analyzed 09/19/23 00:02 Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics	esel Range (Result 158 Diesel Range Result 49.6	Qualifier Organics Qualifier U	DRO) (GC) RL 49.6 (DRO) (GC) RL 49.6	Unit mg/Kg Unit mg/Kg	_ =	Prepared 09/18/23 11:01	Analyzed 09/19/23 00:02 Analyzed 09/19/23 00:02 09/19/23 00:02	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	esel Range (Result 158 Diesel Range Result <49.6 158	Qualifier Organics Qualifier U	DRO) (GC) RL 49.6 (DRO) (GC) RL 49.6 49.6	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 09/18/23 11:01 09/18/23 11:01	Analyzed 09/19/23 00:02 Analyzed 09/19/23 00:02 09/19/23 00:02	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 158 Diesel Range Result <49.6 158 <49.6 <49.6	Qualifier Organics Qualifier U	DRO) (GC) RL 49.6 (DRO) (GC) RL 49.6 49.6 49.6	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 09/18/23 11:01 09/18/23 11:01 09/18/23 11:01	Analyzed 09/19/23 00:02 Analyzed 09/19/23 00:02 09/19/23 00:02 09/19/23 00:02	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 158 Diesel Range Result <49.6 49.6 %Recovery	Qualifier Organics Qualifier U	DRO) (GC) RL 49.6 (DRO) (GC) RL 49.6 49.6 49.6 Limits	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 09/18/23 11:01 09/18/23 11:01 09/18/23 11:01 Prepared	Analyzed 09/19/23 00:02 Analyzed 09/19/23 00:02 09/19/23 00:02 09/19/23 00:02 Analyzed	Dil Fac
Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 158	Qualifier Organics Qualifier U Qualifier	DRO) (GC) RL 49.6 (DRO) (GC) RL 49.6 49.6 49.6 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 09/18/23 11:01 09/18/23 11:01 09/18/23 11:01 Prepared 09/18/23 11:01	Analyzed 09/19/23 00:02 Analyzed 09/19/23 00:02 09/19/23 00:02 09/19/23 00:02 Analyzed 09/19/23 00:02	Dil Fac

Client Sample ID: SW03

Date Collected: 09/11/23 12:50

Lab Sample ID: 890-5239-2

Matrix: Solid

5.03

mg/Kg

117

Date Received: 09/11/23 14:58

Sample Depth: 0 - 3'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/23 15:40	09/13/23 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130			09/13/23 15:40	09/13/23 23:53	1

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09/15/23 17:51

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TOTAL CALIBRA

Client Sample Results

Client: Ensolum

Job ID: 890-5239-1

Project/Site: BIG EDDY UNIT 70 BATTERY

SDG: 03C1558258

Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Client Sample ID: 890-5239-2
Date Collected: 09/11/23 12:50
Matrix: Solid

Date Received: 09/11/23 14:58 Sample Depth: 0 - 3'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued	Method: SW846 8021B	- Volatile Org	ganic Compound	s (GC)	(Continued)
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Surrogate		Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88	70 - 130	09/13/23 15:40	09/13/23 23:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/14/23 15:21	1

ı		
ı	Mathadi CIMO 4C OD4E NIM Disasi Dan	we Organica (DDO) (CC)
ı	Method: SW846 8015 NM - Diesel Ran	de Ordanics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			09/14/23 19:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/23 14:38	09/14/23 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/13/23 14:38	09/14/23 16:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/23 14:38	09/14/23 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130	09/13/23 14:38	09/14/23 16:59	1
o-Terphenyl	150	S1+	70 - 130	09/13/23 14:38	09/14/23 16:59	1

Method: EPA 300.0 - Anic	ons, Ion Chromatography - S	oluble
A I 4	Descrit Occalifies	D.

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.6	5.03	mg/Kg			09/15/23 17:04	1

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Surrogate Summary

Client: Ensolum Job ID: 890-5239-1
Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Perce	nt Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5238-A-1-E MS	Matrix Spike	89	115	
890-5238-A-1-F MSD	Matrix Spike Duplicate	101	90	
890-5239-1	FS02A	103	76	
890-5239-2	SW03	80	88	
LCS 880-62353/1-A	Lab Control Sample	101	89	
LCSD 880-62353/2-A	Lab Control Sample Dup	112	91	
MB 880-62353/5-A	Method Blank	101	103	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-33190-A-1-C MS	Matrix Spike	163 S1+	133 S1+
880-33190-A-1-D MSD	Matrix Spike Duplicate	163 S1+	131 S1+
890-5239-1	FS02A	123	125
890-5239-2	SW03	163 S1+	150 S1+
LCS 880-62371/2-A	Lab Control Sample	122	134 S1+
LCSD 880-62371/3-A	Lab Control Sample Dup	115	109
MB 880-62371/1-A	Method Blank	158 S1+	143 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-5239-1 Client: Ensolum Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-62353/5-A

Matrix: Solid

Analysis Batch: 62372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62353

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 18:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 18:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 18:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/23 15:40	09/13/23 18:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/23 15:40	09/13/23 18:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/23 15:40	09/13/23 18:09	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	09/13/23 15:40	09/13/23 18:09	1
1,4-Difluorobenzene (Surr)	103	70 - 130	09/13/23 15:40	09/13/23 18:09	1

Lab Sample ID: LCS 880-62353/1-A

Matrix: Solid

Analysis Batch: 62372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62353

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09577		mg/Kg		96	70 - 130	
Toluene	0.100	0.08898		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08882		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1643		mg/Kg		82	70 - 130	
o-Xylene	0.100	0.08560		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-62353/2-A

Matrix: Solid

Analysis Batch: 62372

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

Prep Batch: 62353

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	8	35
Toluene	0.100	0.09731		mg/Kg		97	70 - 130	9	35
Ethylbenzene	0.100	0.09814		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2007		mg/Kg		100	70 - 130	20	35
o-Xylene	0.100	0.1072		mg/Kg		107	70 - 130	22	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-5238-A-1-E MS

Matrix: Solid

Analysis Batch: 62372

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

Prep Batch: 62353

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.09284		mg/Kg	_	93	70 - 130	
Toluene	<0.00198	U F1	0.0998	0.06428	F1	mg/Kg		64	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

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

Lab Sample ID: 890-5238-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Total/NA Analysis Batch: 62372** Prep Batch: 62353

١		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene	<0.00198	U F2 F1	0.0998	0.05353	F1	mg/Kg		54	70 - 130	
	m-Xylene & p-Xylene	< 0.00396	U	0.200	0.1503		mg/Kg		75	70 - 130	
	o-Xylene	<0.00198	U	0.0998	0.07122		mg/Kg		71	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 89 1,4-Difluorobenzene (Surr) 70 - 130 115

Lab Sample ID: 890-5238-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 62372									Prep E	atch: 6	32353
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.1042		mg/Kg		104	70 - 130	12	35
Toluene	<0.00198	U F1	0.100	0.08984		mg/Kg		89	70 - 130	33	35
Ethylbenzene	<0.00198	U F2 F1	0.100	0.08134	F2	mg/Kg		81	70 - 130	41	35
m-Xylene & p-Xylene	< 0.00396	U	0.201	0.1516		mg/Kg		76	70 - 130	1	35
o-Xylene	<0.00198	U	0.100	0.08166		mg/Kg		81	70 - 130	14	35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 101 1,4-Difluorobenzene (Surr) 90 70 - 130

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

Lab Sample ID: MB 880-62371/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Prep Batch: 62371 **Analysis Batch: 62395**

	MB	MR							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	_	09/13/23 14:38	09/14/23 08:16	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/23 14:38	09/14/23 08:16	1	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/23 14:38	09/14/23 08:16	1	

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130	09/13/23 14:38	09/14/23 08:16	1
o-Terphenyl	143	S1+	70 - 130	09/13/23 14:38	09/14/23 08:16	1

Lab Sample ID: LCS 880-62371/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 62395 Prep Batch: 62371 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1146 115 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1115 mg/Kg 111 70 - 130

Eurofins Carlsbad

C10-C28)

QC Sample Results

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

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

Lab Sample ID: LCS 880-62371/2-A

Matrix: Solid

Analysis Batch: 62395

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 62371

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 122 70 - 130 o-Terphenyl 134 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-62371/3-A **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 62395

Prep Batch: 62371 LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1103 mg/Kg 110 70 - 130 4 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1079 mg/Kg 108 70 - 130 3 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 70 - 130 o-Terphenyl 109

Lab Sample ID: 880-33190-A-1-C MS **Client Sample ID: Matrix Spike Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 62395

Prep Batch: 62371 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec Ū Gasoline Range Organics <49.8 1010 931.2 mg/Kg 90 70 - 130 (GRO)-C6-C10 1010 Diesel Range Organics (Over 147 1184 mg/Kg 103 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 163 S1+ 1-Chlorooctane 70 - 130 133 S1+ o-Terphenyl 70 - 130

Lab Sample ID: 880-33190-A-1-D MSD

Matrix: Solid

Analysis Batch: 62395

Prep Batch: 62371 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier RPD Added Result Qualifier Limits Limit **Analyte** Unit %Rec Gasoline Range Organics <49.8 U 1010 957.8 93 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 147 1010 1187 mg/Kg 103 70 - 130 0 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 163 S1+ 70 - 130 o-Terphenyl 131 S1+ 70 - 130

Eurofins Carlsbad

Prep Type: Total/NA

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-62408/1-A

Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 62587

Prep Type: Soluble

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 5.00 09/15/23 13:52 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-62408/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 62587

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 240.9 mg/Kg 96

Lab Sample ID: LCSD 880-62408/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 62587

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec Chloride 250 241.9 97 90 - 110 20 mg/Kg

Lab Sample ID: 890-5261-A-7-F MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 62587

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 248 454.8 216 mg/Kg 96 90 - 110

Lab Sample ID: 890-5261-A-7-G MSD

Matrix: Solid

Analysis Batch: 62587

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec **RPD** Limit Chloride 216 248 451.4 95 20 mg/Kg 90 - 110

Eurofins Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

GC VOA

Prep Batch: 62353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	5035	
890-5239-2	SW03	Total/NA	Solid	5035	
MB 880-62353/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-62353/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-62353/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5238-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5238-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 62372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	8021B	62353
890-5239-2	SW03	Total/NA	Solid	8021B	62353
MB 880-62353/5-A	Method Blank	Total/NA	Solid	8021B	62353
LCS 880-62353/1-A	Lab Control Sample	Total/NA	Solid	8021B	62353
LCSD 880-62353/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	62353
890-5238-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	62353
890-5238-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	62353

Analysis Batch: 62471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	Total BTEX	
890-5239-2	SW03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 62371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-2	SW03	Total/NA	Solid	8015NM Prep	
MB 880-62371/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-62371/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-62371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-33190-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-33190-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 62395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-2	SW03	Total/NA	Solid	8015B NM	62371
MB 880-62371/1-A	Method Blank	Total/NA	Solid	8015B NM	62371
LCS 880-62371/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	62371
LCSD 880-62371/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	62371
880-33190-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	62371
880-33190-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	62371

Analysis Batch: 62498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	8015 NM	
890-5239-2	SW03	Total/NA	Solid	8015 NM	

Prep Batch: 62618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

GC Semi VOA

Analysis Batch: 62666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Total/NA	Solid	8015B NM	62618

HPLC/IC

Leach Batch: 62408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Soluble	Solid	DI Leach	
890-5239-2	SW03	Soluble	Solid	DI Leach	
MB 880-62408/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-62408/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-62408/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5261-A-7-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5261-A-7-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 62587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5239-1	FS02A	Soluble	Solid	300.0	62408
890-5239-2	SW03	Soluble	Solid	300.0	62408
MB 880-62408/1-A	Method Blank	Soluble	Solid	300.0	62408
LCS 880-62408/2-A	Lab Control Sample	Soluble	Solid	300.0	62408
LCSD 880-62408/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	62408
890-5261-A-7-F MS	Matrix Spike	Soluble	Solid	300.0	62408
890-5261-A-7-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	62408

Lab Chronicle

Client: Ensolum Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Client Sample ID: FS02A

Date Collected: 09/11/23 12:30 Date Received: 09/11/23 14:58

Lab Sample ID: 890-5239-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	62353	09/13/23 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62372	09/13/23 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62471	09/14/23 15:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			62498	09/19/23 00:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	62618	09/18/23 11:01	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62666	09/19/23 00:02	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62408	09/15/23 10:08	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62587	09/15/23 17:51	SMC	EET MID

Client Sample ID: SW03 Lab Sample ID: 890-5239-2 Date Collected: 09/11/23 12:50 **Matrix: Solid**

Date Received: 09/11/23 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	62353	09/13/23 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	62372	09/13/23 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			62471	09/14/23 15:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			62498	09/14/23 19:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	62371	09/13/23 14:38	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	62395	09/14/23 16:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	62408	09/15/23 10:08	AG	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	62587	09/15/23 17:04	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5239-1
Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Laboratory: Eurofins Midland

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

Authority Texas		rogram ELAP	Identification Number	Expiration Date 06-30-24
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: BIG EDDY UNIT 70 BATTERY

Job ID: 890-5239-1

SDG: 03C1558258

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

Job ID: 890-5239-1 Project/Site: BIG EDDY UNIT 70 BATTERY SDG: 03C1558258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5239-1	FS02A	Solid	09/11/23 12:30	09/11/23 14:58	3
890-5239-2	SW03	Solid	09/11/23 12:50	09/11/23 14:58	0 - 3'

Bed Date: 08/25/2020 Rev. 2020.

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Environment Testing

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Xenco

Work Order No:

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

www.xenco.com

Date/Time Received by: (Signature) m 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. 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 Relinquished by: (Signature) 14:52 Date/Time 9-11-23 Received by: (Signature) Cocer Relinquished by: (Signature)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5239-1 SDG Number: 03C1558258

Login Number: 5239 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Lopez, Abraham

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: 890-5239-1 SDG Number: 03C1558258

Login Number: 5239 **List Source: Eurofins Midland** List Creation: 09/13/23 11:34 AM List Number: 2

Creator: Teel, Brianna

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 10/6/2023 2:46:47 PM

JOB DESCRIPTION

Big Eddy Unit 70 Battery SDG NUMBER 03C1558258

JOB NUMBER

890-5367-1

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 10/6/2023 2:46:47 PM

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

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Laboratory Job ID: 890-5367-1 Client: Ensolum SDG: 03C1558258 Project/Site: Big Eddy Unit 70 Battery

Table of Contents

Cover Page	ı
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	8
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

Definitions/Glossary

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5367-1

SDG: 03C1558258

Qualifiers

GC VOA Qualifier

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

MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

GC Sellii VC	VA
Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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

Glossary

F1

RL RPD

TEF

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)

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Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

Definitions/Glossary

Client: Ensolum Job ID: 890-5367-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.				
TEQ	Toxicity Equivalent Quotient (Dioxin)				
TNTC	Too Numerous To Count				

Case Narrative

Job ID: 890-5367-1 Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Job ID: 890-5367-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5367-1

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 sample was received on 9/28/2023 12:23 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS02 B (890-5367-1).

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS02 B (890-5367-1) and (890-5376-A-21-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-63761 and analytical batch 880-63990 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-63699 and analytical batch 880-63712 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-63699/2-A), (LCSD 880-63699/3-A) and (890-5363-A-46-C). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-63699 and analytical batch 880-63712 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-63699 and analytical batch 880-63712 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-63712 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-63712/31).

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

HPLC/IC

Eurofins Carlsbad 10/6/2023

Case Narrative

Client: Ensolum Job ID: 890-5367-1 Project/Site: Big Eddy Unit 70 Battery

SDG: 03C1558258

Job ID: 890-5367-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-63527 and analytical batch 880-63842 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.

Matrix: Solid

Lab Sample ID: 890-5367-1

Client Sample Results

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Client Sample ID: FS02 B

Date Collected: 09/28/23 10:25 Date Received: 09/28/23 12:23

Sample Depth: 3'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
Ethylbenzene	< 0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
o-Xylene	< 0.00199	U *- *1	0.00199	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		10/02/23 13:35	10/05/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			10/02/23 13:35	10/05/23 19:45	1
1,4-Difluorobenzene (Surr)	61	S1-	70 - 130			10/02/23 13:35	10/05/23 19:45	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/05/23 19:45	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/02/23 23:55	
Analyte	Result 94.6	Qualifier	RL 50.5		<u>D</u>	Prepared		
Analyte Total TPH	Result 94.6 sel Range Orga	Qualifier	RL 50.5		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	94.6 sel Range Orga Result	Qualifier nics (DRO)	RL 50.5	mg/Kg	_ =	<u> </u>	10/02/23 23:55	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	94.6 sel Range Orga Result	Qualifier nics (DRO) Qualifier U *- *1	RL 50.5 (GC)	mg/Kg	_ =	Prepared	10/02/23 23:55 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 94.6 sel Range Orga Result <50.5	Qualifier nics (DRO) Qualifier U *- *1 *-	RL 50.5 (GC) RL 50.5	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43	10/02/23 23:55 Analyzed 10/02/23 23:55	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 94.6 sel Range Orga Result <50.5 94.6	Qualifier nics (DRO) Qualifier U *- *1 *-	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43 09/30/23 19:43	10/02/23 23:55 Analyzed 10/02/23 23:55 10/02/23 23:55	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 94.6	Qualifier nics (DRO) Qualifier U *- *1 *-	RL 50.5 (GC) RL 50.5 50.5	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43 09/30/23 19:43	Analyzed 10/02/23 23:55 10/02/23 23:55 10/02/23 23:55	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 94.6	Qualifier nics (DRO) Qualifier U *- *1 *-	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43 09/30/23 19:43 09/30/23 19:43 Prepared	Analyzed 10/02/23 23:55 Analyzed 10/02/23 23:55 10/02/23 23:55 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 94.6	Qualifier nics (DRO) Qualifier U*-*1 *- U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43 09/30/23 19:43 09/30/23 19:43 Prepared 09/30/23 19:43	10/02/23 23:55 Analyzed 10/02/23 23:55 10/02/23 23:55 10/02/23 23:55 Analyzed 10/02/23 23:55	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 94.6	Qualifier nics (DRO) Qualifier U*-*1 *- U Qualifier	RL 50.5 (GC) RL 50.5 50.5 50.5 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg	_ =	Prepared 09/30/23 19:43 09/30/23 19:43 09/30/23 19:43 Prepared 09/30/23 19:43	10/02/23 23:55 Analyzed 10/02/23 23:55 10/02/23 23:55 10/02/23 23:55 Analyzed 10/02/23 23:55	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5367-1	FS02 B	86	61 S1-	
890-5376-A-21-D MS	Matrix Spike	106	118	
890-5376-A-21-E MSD	Matrix Spike Duplicate	115	120	
LCS 880-63761/1-A	Lab Control Sample	111	116	
LCSD 880-63761/2-A	Lab Control Sample Dup	85	108	
MB 880-63761/5-A	Method Blank	71	93	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-5363-A-46-D MS	Matrix Spike	113	128	
90-5363-A-46-E MSD	Matrix Spike Duplicate	107	100	
90-5367-1	FS02 B	123	125	
CS 880-63699/2-A	Lab Control Sample	3 S1-	0.2 S1-	
.CSD 880-63699/3-A	Lab Control Sample Dup	2 S1-	0.2 S1-	
/IB 880-63699/1-A	Method Blank	159 S1+	183 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-5367-1 SDG: 03C1558258 Project/Site: Big Eddy Unit 70 Battery

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63761/5-A

Matrix: Solid Analysis Batch: 63990 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Batch: 63761

ı		MB	MR						
l	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Benzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
l	Toluene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
l	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
l	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
l	o-Xylene	<0.00200	U	0.00200	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
l	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/02/23 13:35	10/05/23 11:42	1
ı									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	10/02/23 13	3:35 10/05/23 11:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130	10/02/23 13	3:35 10/05/23 11:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 63761

Prep Type: Total/NA

Prep Batch: 63761

Lab Sample ID: LCS 880-63761/1-A **Matrix: Solid**

Analysis Batch: 63990

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2374		mg/Kg		119	70 - 130	
o-Xylene	0.100	0.1156		mg/Kg		116	70 - 130	

LCS LCS

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 63990

Lab Sample ID: LCSD 880-63761/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07265	*1	mg/Kg		73	70 - 130	37	35
Toluene	0.100	0.06385	*- *1	mg/Kg		64	70 - 130	54	35
Ethylbenzene	0.100	0.05811	*- *1	mg/Kg		58	70 - 130	65	35
m-Xylene & p-Xylene	0.200	0.1107	*- *1	mg/Kg		55	70 - 130	73	35
o-Xylene	0.100	0.05425	*- *1	mg/Kg		54	70 - 130	72	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-5376-A-21-D MS

Matrix: Solid

Analysis Batch: 63990

Client S	Sample	ID: I	Matri	x S	pik	e
	Prer	Tv	ne: T	ota	I/N	Δ

Prep Batch: 63761

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *1	0.0998	0.1127		mg/Kg		113	70 - 130	
Toluene	<0.00200	U *- *1	0.0998	0.1083		mg/Kg		109	70 - 130	

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Page 10 of 22

Client: Ensolum Job ID: 890-5367-1 Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

Lab Sample ID: 890-5376-A-21-D MS

Lab Sample ID: 890-5376-A-21-E MSD

Matrix: Solid

Analysis Batch: 63990

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63761

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U *- *1	0.0998	0.1087		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *- *1	0.200	0.2225		mg/Kg		111	70 - 130	
o-Xylene	<0.00200	U *- *1	0.0998	0.1091		mg/Kg		109	70 - 130	

MS MS

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63761 RPD

RPD

Limit

Matrix: Solid Analysis Batch: 63990 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec Analyte babbA Limits Unit Benzene <0.00200 U *1 0.0990 0.1177 mg/Kg 119 70 - 130

4 35 Toluene <0.00200 U *- *1 0.0990 0.1130 mg/Kg 114 70 - 130 4 35 Ethylbenzene <0.00200 U *- *1 0.0990 0.1125 70 - 130 35 mg/Kg 114 3 0.198 m-Xylene & p-Xylene <0.00401 U *- *1 0.2293 mg/Kg 116 70 - 130 3 35 <0.00200 U *- *1 0.0990 o-Xylene 0.1126 mg/Kg 114 70 - 1303

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

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

Lab Sample ID: MB 880-63699/1-A

Matrix: Solid

Analysis Batch: 63712

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

Prep Batch: 63699

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 09/30/23 19:43 10/02/23 19:53 <50.0 U 50.0 Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/02/23 19:53 Diesel Range Organics (Over <50.0 U 50.0 09/30/23 19:43 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 09/30/23 19:43 10/02/23 19:53 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130	09/30/23 19:43	10/02/23 19:53	1
o-Terphenyl	183	S1+	70 - 130	09/30/23 19:43	10/02/23 19:53	1

Lab Sample ID: LCS 880-63699/2-A

Matrix: Solid

Analysis Batch: 63712

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

Prep Batch: 63699

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	55.88	*-	mg/Kg		6	70 - 130	 _
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	33.97	J *-	mg/Kg		3	70 - 130	
C10-C28)								

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Job ID: 890-5367-1 Client: Ensolum Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

LCS LCS

Lab Sample ID: LCS 880-63699/2-A

Matrix: Solid

Analysis Batch: 63712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63699

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 3 S1-70 - 130 o-Terphenyl 0.2 S1-70 - 130

Lab Sample ID: LCSD 880-63699/3-A

Matrix: Solid

Analysis Batch: 63712

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63699

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 45.28 J*-*1 5 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 32.34 J*-3 mg/Kg 70 - 1305 20 C10-C28)

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

Lab Sample ID: 890-5363-A-46-D MS

Matrix: Solid

Analysis Batch: 63712

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63699

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.6 U *- *1 F2 1000 1005 mg/Kg 98 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U *- F2 1000 1245 mg/Kg 121 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 113 o-Terphenyl 128 70 - 130

Lab Sample ID: 890-5363-A-46-E MSD

Matrix: Solid

Analysis Batch: 63712

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63699

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.6 U *- *1 F2 1000 809.7 F2 78 Gasoline Range Organics 70 - 130 22 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.6 U *- F2 1000 937.4 F2 mg/Kg 91 70 - 130 28 20

C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 107 70 - 130 100 70 - 130 o-Terphenyl

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63527/1-A

Matrix: Solid

Analysis Batch: 63842

мв мв

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit
 D mg/Kg
 Prepared
 Analyzed Analyzed
 Dil Fac Dil F

Lab Sample ID: LCS 880-63527/2-A

Matrix: Solid

Analysis Batch: 63842

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 244.1 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-63527/3-A

Matrix: Solid

Analysis Batch: 63842

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 243.7 mg/Kg 90 - 110

Lab Sample ID: 880-33751-A-21-B MS

Matrix: Solid

Analysis Batch: 63842

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 735 F1 253 939.5 F1 81 90 - 110 mg/Kg

Lab Sample ID: 880-33751-A-21-C MSD

Matrix: Solid

Analysis Batch: 63842

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 735 F1 939.7 F1 Chloride 253 mg/Kg 81 90 - 110 0 20

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QC Association Summary

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

GC VOA

Prep Batch: 63761

Lab Sample ID 890-5367-1	Client Sample ID FS02 B	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-63761/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 63990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Total/NA	Solid	8021B	63761
MB 880-63761/5-A	Method Blank	Total/NA	Solid	8021B	63761
LCS 880-63761/1-A	Lab Control Sample	Total/NA	Solid	8021B	63761
LCSD 880-63761/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63761
890-5376-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	63761
890-5376-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	63761

Analysis Batch: 64121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 63699

Lab Sample ID 890-5367-1	Client Sample ID FS02 B	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
MB 880-63699/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63699/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63699/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5363-A-46-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5363-A-46-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 63712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Total/NA	Solid	8015B NM	63699
MB 880-63699/1-A	Method Blank	Total/NA	Solid	8015B NM	63699
LCS 880-63699/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63699
LCSD 880-63699/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63699
890-5363-A-46-D MS	Matrix Spike	Total/NA	Solid	8015B NM	63699
890-5363-A-46-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	63699

Analysis Batch: 63868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 63527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Soluble	Solid	DI Leach	
MB 880-63527/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63527/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63527/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

10/6/2023

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QC Association Summary

Client: Ensolum Job ID: 890-5367-1 Project/Site: Big Eddy Unit 70 Battery

SDG: 03C1558258

HPLC/IC (Continued)

Leach Batch: 63527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-33751-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-33751-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 63842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5367-1	FS02 B	Soluble	Solid	300.0	63527
MB 880-63527/1-A	Method Blank	Soluble	Solid	300.0	63527
LCS 880-63527/2-A	Lab Control Sample	Soluble	Solid	300.0	63527
LCSD 880-63527/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63527
880-33751-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	63527
880-33751-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	63527

Lab Chronicle

Client: Ensolum
Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5367-1
SDG: 03C1558258

Client Sample ID: FS02 B

Lab Sample ID: 890-5367-1

Date Collected: 09/28/23 10:25
Date Received: 09/28/23 12:23
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	63761	10/02/23 13:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63990	10/05/23 19:45	SM	EET MID
Total/NA	Analysis	Total BTEX		1			64121	10/05/23 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			63868	10/02/23 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	63699	09/30/23 19:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63712	10/02/23 23:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63527	09/29/23 13:08	SMC	EET MID
Soluble	Analysis	300.0		1			63842	10/03/23 01:19	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas		LAP	T104704400-23-26	06-30-24	
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for w	
the agency does not of	• •	t the laboratory is not certain	ed by the governing additionty. This list his	ay include analytes for v	
the agency does not of Analysis Method	• •	Matrix	Analyte	ay include analytes for v	
9 ,	fer certification.	,	, , ,	ay ilicidue allalytes for v	

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Method Summary

Client: Ensolum Job ID: 890-5367-1
Project/Site: Big Eddy Unit 70 Battery SDG: 03C1558258

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

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Sample Summary

Client: Ensolum

Project/Site: Big Eddy Unit 70 Battery

Job ID: 890-5367-1

SDG: 03C1558258

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5367-1	FS02 B	Solid	09/28/23 10:25	09/28/23 12:23	3'

567

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

eurofins :

Xence

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

Work Order No:

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Reporting: Level II | Level III | PST/UST | TRRP | Level IV Superfund NAPP7318139530 DI Water: H₂O HNO 3: HN NaOH: Na MeOH: Me NaOH+Ascorbic Acid: SAPC Preservative Codes Sample Comments 1135891001 Cost conter: o Zn Acetate+NaOH: Zn RRC Na 25 203: Na SO 3 Other: Incident NaHSO 4: NABIS 43PO 4: HP UST/PST ☐ PRP☐ Brownfields ☐ H2504: H2 None: NO Cool: Cool Work Order Comments JCL: HC ADaPT www.xenco.com EDD State of Project: Deliverables: ANALYSIS REQUEST 890-5367 Chain of Custody Carkinad, NM 88220 Green CEXXONNObil. com Garrett Green 37 CO 12 BLEX 3104 Chlorides Cont Pres. Code #of Parameters (Jarrett Bill to: (if different) Company Name: Grab/ Comp City, State ZIP: Throo TAT starts the day received by the lab, if received by 4:30pm Yes Rush Address: -0. Depth 3, **Turn Around** Email: JAKS HWY -104, 1)54 log Due Date: Q128123 10:25 Routine Corrected Temperature: Wet Ice: Sampled Temperature Reading: Correction Factor: Thermometer ID: Big Eddy Unit 70 Bater Sampled (Yes/No - 0852 Date 0,001 3122 National ZZ Matrix 3 - 954 Temp Blank: No (N) Yes No (NA arispad にいいこのに出 Yes No Mariaha 32.45634 Yes P.P. Sample Identification Samples Received Intact: Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT roject Number: Total Containers: Project Manager: Company Name: Project Location Sampler's Name: City, State ZIP: Project Name: Address: Phone: PO #:

Se Ag SiO₂ Na Sr TI Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U bottee: 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 Circle Method(s) and Metal(s) to be analyzed 200.8 / 6020: Total 200.7 / 6010

begilleensolum.com

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Ben Belill:

Date/Time Received by: (Signature) Relinquished by: (Signature) FEUROFINS 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 ter (2:2 Date/Time 87-28 Received by: (Signature) Obrilla Relinquished by: (Signature)

Page 20 of 22

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5367-1 SDG Number: 03C1558258

Login Number: 5367 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5367-1 SDG Number: 03C1558258

Login Number: 5367
List Source: Eurofins Midland
List Number: 2
List Creation: 09/29/23 11:04 AM

Creator: Rodriguez, Leticia

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	N/A	

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Eurofins Carlsbad

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Hamlet, Robert, EMNRD

To: Collins, Melanie Suzanne

Cc: Ben Belill: Green, Garrett J; Tacoma Morrissey; tommee.l.lambert@exxonmobil.com; Bratcher, Michael, EMNRD;

Velez, Nelson, EMNRD; Rodgers, Scott, EMNRD

Subject: Extension Approval - XTO - Big Eddy Unit 70 Battery - Incident Number NAPP2318139530

Date: Tuesday, September 19, 2023 10:37:00 AM

Attachments: <u>image003.png</u>

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2318139530

Melanie,

Your request for an extension to **October 21st, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Monday, September 18, 2023 2:37 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD

<mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] XTO - Extension Request - Big Eddy Unit 70 Battery - Incident Number

NAPP2318139530

Scott Rodgers • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Collins, Melanie < melanie.collins@exxonmobil.com >

Sent: Monday, September 18, 2023 12:27 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: bbelill@ensolum.com; Green, Garrett J <garrett.green@exxonmobil.com>; Tacoma Morrissey

<tmorrissey@ensolum.com>; Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>

Subject: [EXTERNAL] XTO - Extension Request - Big Eddy Unit 70 Battery - Incident Number

NAPP2318139530

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension for the current deadline of September 21, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Big Eddy Unit 70 Battery (Incident Number NAPP2318139530). The release occurred on June 23, 2023, and initial site assessment and delineation activities have been completed. Excavation activities have been conducted but laboratory analytical results are currently pending. In order to review laboratory analytical results, potentially conduct additional excavation activities and complete final confirmation soil sample activities, and submit a remediation work plan or closure report, XTO requests a 30 day extension until October 21, 2023.

Thank you,

Melanie Collins



Environmental Technician melanie.collins@exxonmobil.com

432-556-3756

From: <u>Collins, Melanie</u>

To: ocd.enviro (ocd.enviro@emnrd.nm.gov); Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov); Bratcher,

<u>Michael, EMNRD (mike.bratcher@emnrd.nm.gov)</u>; <u>Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov)</u>

Cc: <u>Green, Garrett J</u>; <u>DelawareSpills /SM</u>; <u>Ben Belill</u>

Subject: XTO - 48-Hour Liner Inspection Notification - Big Eddy Unit 70 Battery - Incident Number NAPP2318139530

Date: Monday, August 7, 2023 4:29:09 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

Good afternoon,

This is sent as a 48-hour notification. XTO is scheduled to inspect the following lined containment listed below on **Friday, August 11, 2023**. Please call us with any questions or concerns.

Site: Big Eddy Unit 70 Battery

Incident Number: NAPP2318139530

Time: 10:00 am MST

GPS Coordinates: (32.45634, -104.05469)

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: <u>Collins, Melanie</u>

To: ocd.enviro (ocd.enviro@emnrd.nm.gov)

Cc: <u>Green, Garrett J</u>; <u>Ben Belill</u>

Subject: XTO - Sampling Notification (Week of 9/11/23 - 9/15/23)

Date: Wednesday, September 6, 2023 2:39:22 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of September 11, 2023.

Monday

- JRU 108 / nAPP2217931599
- BEU 70 / NAPP2318139530

Tuesday

• JRU 108 / nAPP2217931599

Wednesday

• JRU 108 / nAPP2217931599

Thursday

- JRU 108 / nAPP2217931599
- PLU 29 Big Sinks West CTB / NAPP2320634792

Friday

• PLU 29 Big Sinks West CTB / NAPP2320634792

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: Green, Garrett J

To: Enviro, OCD, EMNRD

Cc: <u>Ben Belill; DelawareSpills /SM; Collins, Melanie</u>

Subject: XTO - Sampling Notification (Week of 9/25/23 - 9/29/23)

Date: Wednesday, September 20, 2023 5:17:46 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of September 25, 2023.

Monday

- JRU 21 DI 9 Riser / NAPP2322141858
- Poker Lake Unit 301H / NAPP2322646789

Tuesday

- North Indian Flats 26 Fed 1 / nAPP2323653065
- Poker Lake Unit 301H / NAPP2322646789

Wednesday

- North Indian Flats 26 Fed 1 / nAPP2323653065
- BEU 70 / NAPP2318139530

Thursday

- PLU 15 Twin Wells Ranch CTB / Napp2323449490
- Perla Verde 31 State Battery / nAPP2322751480 (SLO)

Thank you,

Garrett Green

Environmental Coordinator Delaware Business Unit (575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

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

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

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

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 277738

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	277738
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	XTO's deferral requests final remediation for (Incident Number NAPP2318139530) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is in the area immediately beneath the lined containment and active production Equipment on the caliche well pad, where remediation would require a major facility deconstruction (Figure 4). The area has been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	2/26/2024