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

NAPP2210937085 Incident ID District RP Facility ID Application ID

Closure

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

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rule and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Garrett Green Title:Environmental Coordinator Date:07/04/2022 Date:07/04/2022	e's	
email:garrett.green@exxonmobil.comTelephone:575-200-0729		
OCD Only		
Received by: Robert Hamlet Date: 7/18/2022		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible		
remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible		

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	NAPP2210937085
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

				· · · · · · · · · · · · · · · · · · ·	<i>)</i>
Responsible Party XTO Energy				OGRID 5	5380
Contact Name Adrian Baker				Contact Te	elephone 432-236-3808
Contact email adrian.baker@exxonmobil.com			om	Incident #	(assigned by OCD)
Contact mail	ing address	6401 Holiday Hill	Rd Bldg 5, Midlar	nd, Texas, 79707	
			Location	of Release So	ource
Latitude 32.21029				Longitude _	-103.90050
Latitude			(NAD 83 in dec	imal degrees to 5 decim	nal places)
Site Name Pl	11120 24 30) Rattery		Site Type	Tank Battery
Date Release	Discovered	04/05/2022		API# (if app.	
		0 17 0 37 2 0 2 2			
Unit Letter	Section	Township	Range	Coun	ity
В	20	24S	30E	Eddy	У
Surface Owne				Volume of I	Release justification for the volumes provided below)
Crude Oi		Volume Release			Volume Recovered (bbls)
× Produced	Water	Volume Release	d (bbls) 15.00		Volume Recovered (bbls) 15.00
Is the concentration of total dissolved so in the produced water >10,000 mg/l?		, ,	☐ Yes 🗷 No		
Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)
☐ Natural C	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)		
Cause of Rel	Liner w	ment. An nuids w	ted and determined	+8-nour advance m	e due to corrosion, releasing fluids into lined ner inspection notice was sent to NMOCD District 2. ng as designed. A third-party contractor has been

Received by OCD: 6/24/2022 9:14:3174M1 State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2210937085
District RP	
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Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?	N/A	
☐ Yes 🗷 No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
14/21		
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	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 d	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	
	d above have <u>not</u> been undertaken, explain v	hy:
NA		
has begun, please attach	a narrative of actions to date. If remedial	mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred ease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notifient. The acceptance of a C-141 report by the Oate and remediate contamination that pose a three	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Shelby Pe	ennington	Title: Environmental Manager
Signature:	Lemijo	Date: 4/19/22
email: shelby.g.penningto	on@exxonmobil.com	Telephone: 281-723-9353
OCD Only		
Received by:Jocelyn	Harimon	Date:04/19/2022

Location:	PLU 20-24-30 Battery	
Spill Date:	4/5/2022	
	Area 1	
Approximate A	rea = 84.22	cu.ft.
	VOLUME OF LEAK	
Total Crude Oil	= 0.00	bbls
Total Produced	Water = 15.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil	= 0.00	bbls
Total Produced	Water = 15.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil	= 0.00	bbls
Total Produced	I Water = 15.00	bbls

	Page 5 of	77
Incident ID	NAPP2210937085	
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.		
 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 		

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.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Boring or excavation logs

Topographic/Aerial maps

Photographs including date and GIS information

□ Laboratory data including chain of custody

Received by OCD: 6/24/2022 9:14:31 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2210937085	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Garrett Green	Title:Environmental Coordinator	
Signature:Satt Sur	Date:07/04/2022	
email:garrett.green@exxonmobil.com	Telephone: _575-200-0729	
OCD Only		
Received by:	Date:	

State of New Mexico Incident ID NAP

Incident ID	NAPP2210937085
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title:Environmental Coordinator	
email:garrett.green@exxonmobil.com		
OCD Only		
Received by:	_ Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	



July 4, 2022

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

Re: Closure Request

PLU 20-24-30 Battery

Incident Number NAPP2210937085

Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment and soil sampling activities performed at the PLU 20-24-30 Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of produced water within lined containment at the Site. Based on field observations, field screening activities, and laboratory analytical results, XTO is submitting this Closure Request and requesting closure for Incident Number NAPP2210937085.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 20, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21029° N, 103.90050° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On April 5, 2022, corrosion on a water dump line resulted in the release of 15 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; all 15 bbls of produced water were recovered from within the lined containment. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted on April 13, 2022, and the liner was determined to be insufficient. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on April 19, 2022. The release was assigned Incident Number NAPP2210937085.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



groundwater data is New Mexico Office of the State Engineer well C-03960, located approximately 0.9 miles east of the Site. The well was drilled on November 12, 2016, and has a total depth of 475 feet bgs. Groundwater was encountered at a depth of 250 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 910 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

TPH: 2,500 mg/kgChloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On May 24, 2022 and June 7, 2022, Ensolum personnel were at the Site to evaluate the release extent and conduct site assessment activities. One borehole (BH01) was advanced via hand auger at the location of the tear in the liner to assess for the presence or absence of impacted soil. Delineation soil samples were collected from borehole BH01 at depths of 0.5 feet and 1-foot bgs. Four additional assessment samples (SS01 through SS04) were collected around the lined containment from a depth of 0.5 feet bgs to confirm the lateral extent of the release. Soil from the borehole was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix B. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The borehole and delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix C.

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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples SS01 through SS04 and the delineation samples from borehole BH01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure



Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of impacted soil resulting from the April 5, 2022, produced water release within lined containment. Two delineation soil samples were collected from borehole BH01, at depths of approximately 0.5 feet and 1-foot bgs. Laboratory analytical results for the delineation soil samples indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH and chloride concentrations were compliant with the most stringent Closure Criteria. Additionally, laboratory analytical results for soil samples SS01 through SS04, collected around the containment, were compliant with the most stringent Table 1 Closure Criteria. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, depth to groundwater greater than 100 feet bgs, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, XTO respectfully requests closure for Incident Number NAPP2210937085.

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

Sincerely,

Ensolum, LLC

Tacoma Morrissey Senior Geologist Aimee Cole

Senior Managing Scientist

Since Cole

cc: Garrett Green, XTO

Mouissey

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Lithologic / Soil Sampling Logs

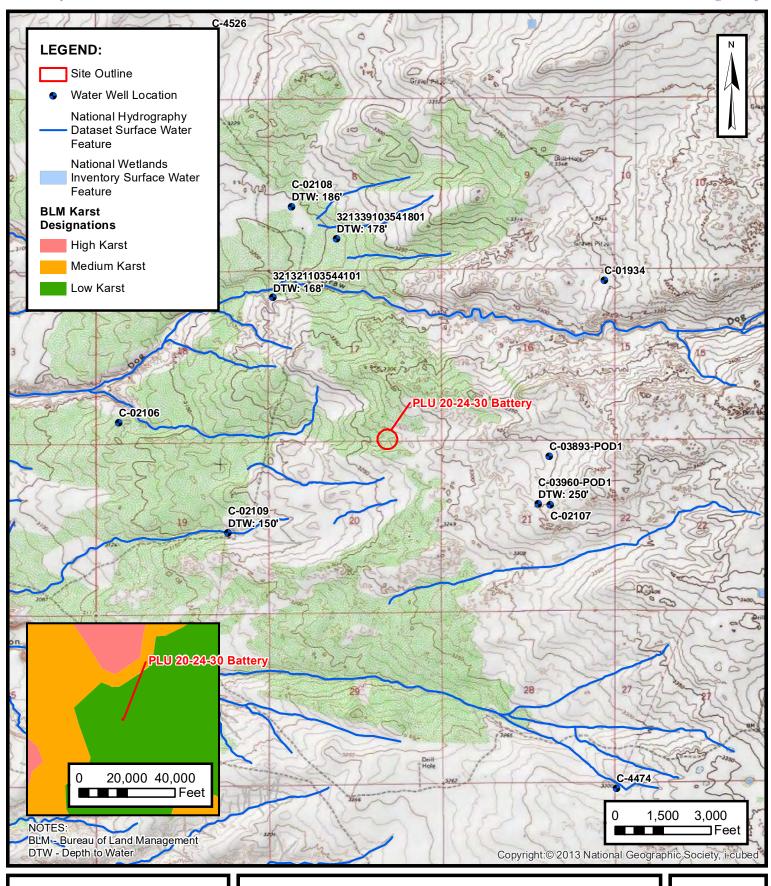
Appendix C Photographic Log

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

Appendix E NMOCD Notifications



FIGURES



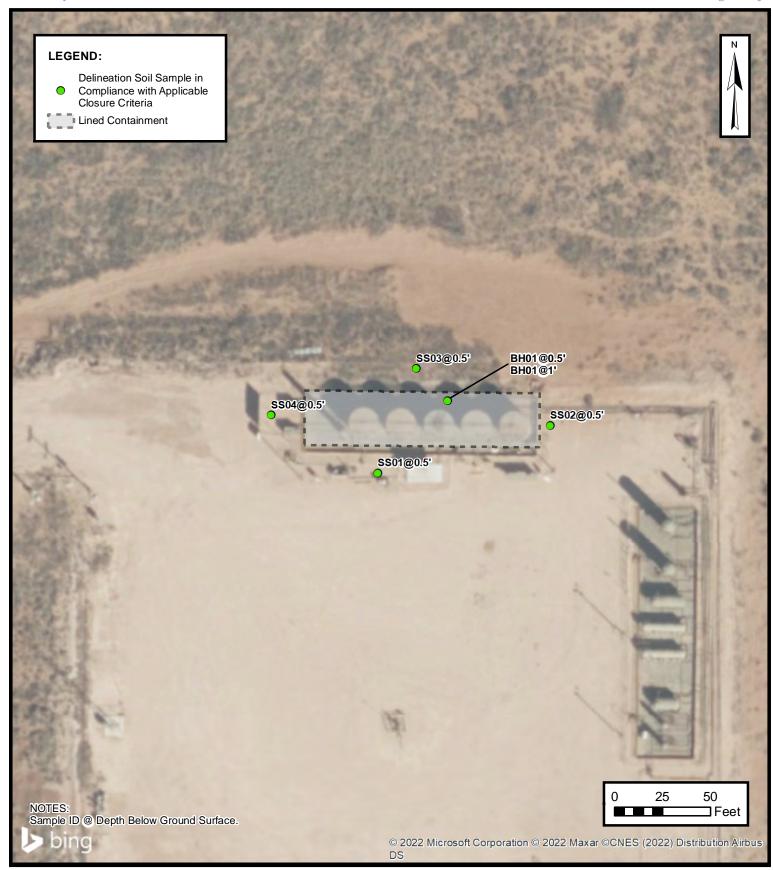


SITE RECEPTOR MAP

XTO ENERGY, INC PLU 20-24-30 BATTERY NAPP2210937085 Unit B Sec 20, T24S, R30E Eddy County, New Mexico **FIGURE**

1

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DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC PLU 20-24-30 BATTERY NAPP2210937085 Unit B Sec 20, T24S, R30E Eddy County, New Mexico **FIGURE**

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 20-24-30 Battery XTO Energy, Inc. Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (I	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
	Delineation Soil Samples									
SS01	05/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	27.2
SS02	05/24/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	8.23
SS03	05/24/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7.99
SS04	05/24/2022	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	349
BH01	06/07/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	36.4
BH01	06/07/2022	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	27.6

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

 $\label{eq:BTEX:Benzene} \mbox{BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes}$

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

PAGE 1 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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_	SECTION	21 TO	WNSHIP 24 S. RAN	GE 30 S.									
	LICENSE N	UMBER	NAME OF LICENSE	DRILLER						NAME OF WELL DR	ILLING COM	MPANY	
	WD-	1753		JAC	OBO FRIESSE	N				, VANGU.	ARD WAI	TER WELL	.s
	DRILLING S		DRILLING ENDED	DEPTH OF COM	PLETED WELL (FT	") 1		E DEPTH	(FI)	DEPTH WATER FIR			
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NC					DRY HOLE SHALLOW (UNCONFINED)						97 July 1970	#17 P	
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LOCATION 24 30

			<u>,</u>			
	DEPTH (feet bgI) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZON (attack supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
1	0	1	1	TOPSOIL	, Y • N	7
	1	42	41	SAND	Y VI	
	42	182	140	SAND & SANDSTONE	Y / ?	
	182	250	68	SAND & GRAVEL	VY :	1
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	PUMP	Al	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm	
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POD NUMBER

TRN NUMBER

PAGE 2 OF 2

23

FILE NUMBER

LOCATION



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
0303 Water Resources	Groundwater	~	United States	~ [GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 321205103544701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°12'05", Longitude 103°54'47" NAD27

Land-surface elevation 3,188 feet above NAVD88

The depth of the well is 452 feet below land surface.

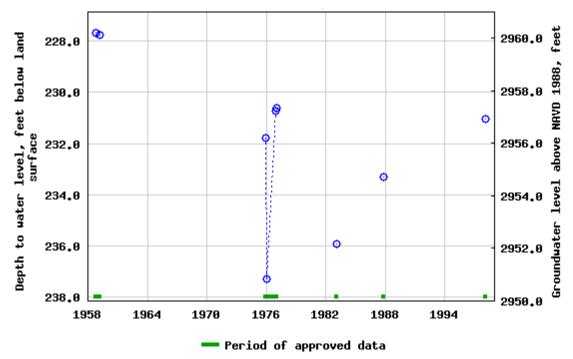
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

USGS 321205103544701 245.30E.19.42113



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-06-20 12:56:09 EDT

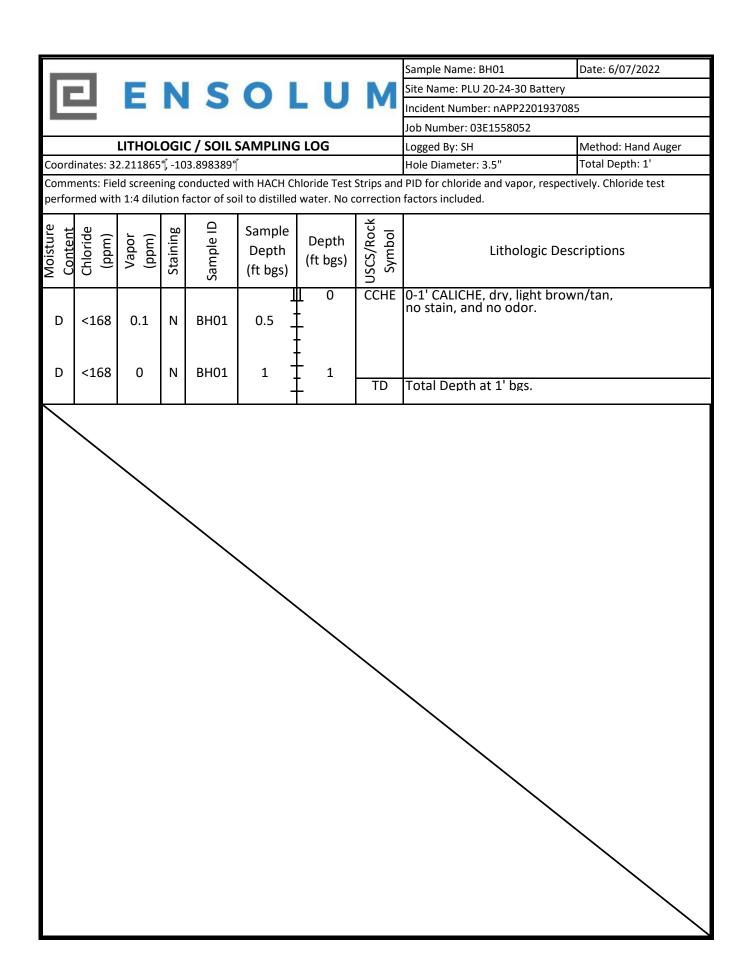
0.56 0.49 nadww01





APPENDIX B

Lithologic Soil Sampling Logs





APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

XTO Energy, Inc.
PLU 20-24-30 Battery
Incident Number NAPP2201937085



Photograph 1 Date: June 7, 2022

Description:
View of hole in liner facing northeast.



Photograph 2 Date: June 7, 2022

Description: View of delineation borehole (BH01) collected at the location of the hole in the liner facing east.



Photograph 3 Date: June 15, 2022

Description: View of repaired liner facing northwest.



Photograph 4 Date: June 15, 2022

Description: View of repaired liner facing west.



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2345-1

Laboratory Sample Delivery Group: 03E1558052 Client Project/Site: PLU 20-24-30 BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

MRAMER

Authorized for release by: 6/2/2022 11:18:20 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 7/18/2022 8:13:40 AM

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

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

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Client: Ensolum Laboratory Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

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Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

Definitions/Glossary

Job ID: 890-2345-1 Client: Ensolum Project/Site: PLU 20-24-30 BATTERY

SDG: 03E1558052

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit 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

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1

SDG: 03E1558052

Job ID: 890-2345-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2345-1

Receipt

The samples were received on 5/25/2022 4:13 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 5.8°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-26594 and analytical batch 880-26643 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-26464 and analytical batch 880-26542 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

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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Client Sample Results

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

Client Sample ID: SS01

Lab Sample ID: 890-2345-1 Date Collected: 05/24/22 15:30 Matrix: Solid Date Received: 05/25/22 16:13

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/22 15:07	05/31/22 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/27/22 15:07	05/31/22 20:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/27/22 15:07	05/31/22 20:10	1
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/01/22 10:25	1
Method: 8015 NM - Diesel Range	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/31/22 09:45	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/28/22 05:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/28/22 05:29	
								1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/28/22 05:29	
•	<50.0 %Recovery		50.0 Limits	mg/Kg		05/27/22 11:19 Prepared	05/28/22 05:29 **Analyzed**	1
Oll Range Organics (Over C28-C36)				mg/Kg				1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits	mg/Kg		Prepared	Analyzed	1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 99 105	Qualifier	Limits 70 - 130	mg/Kg		Prepared 05/27/22 11:19	Analyzed 05/28/22 05:29	1 1 <u>Dil Fac</u> 1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 99 105 omatography -	Qualifier	Limits 70 - 130	mg/Kg Unit	D	Prepared 05/27/22 11:19	Analyzed 05/28/22 05:29	1 Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-2345-2 Matrix: Solid

Date Collected: 05/24/22 15:35 Date Received: 05/25/22 16:13

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/27/22 15:07	05/31/22 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/27/22 15:07	05/31/22 20:31	1

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2345-2

Client: Ensolum Job ID: 890-2345-1

SDG: 03E1558052 Project/Site: PLU 20-24-30 BATTERY

Client Sample ID: SS02 Date Collected: 05/24/22 15:35

Date Received: 05/25/22 16:13

Sample Depth: 0.5

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	05/27/22 15:07	05/31/22 20:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			06/01/22 10:25	1

Method: 8015 NM - Diesel Range Organics (DRO)	(GC)
incured to the Picsci Range Organics (Dixo)	\cdot

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/31/22 09:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 05:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 05:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 05:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			05/27/22 11:19	05/28/22 05:51	1

1-Chlorooctane	83	70 - 130	
o-Terphenyl	85	70 - 130	

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8 23	5.01	ma/Ka			05/30/22 00:43	1

Client Sample ID: SS03 Lab Sample ID: 890-2345-3 **Matrix: Solid**

Date Collected: 05/24/22 15:40 Date Received: 05/25/22 16:13

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

mountain colline in a second		()						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/27/22 15:07	05/31/22 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/27/22 15:07	05/31/22 20:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/27/22 15:07	05/31/22 20:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/01/22 10:25	1

н	Made al. COAF NIM Diaga	D O! (DDO)	1/001
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo Min Bicoc	range Organico (Bra	, , , , , ,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/31/22 09:45	1

Eurofins Carlsbad

Matrix: Solid

Client: Ensolum Job ID: 890-2345-1

Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

Client Sample ID: SS03 Lab Sample ID: 890-2345-3 Date Collected: 05/24/22 15:40 Date Received: 05/25/22 16:13

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 06:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 06:12	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/27/22 11:19	05/28/22 06:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			05/27/22 11:19	05/28/22 06:12	1
o-Terphenyl	83		70 - 130			05/27/22 11:19	05/28/22 06:12	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.97	mg/Kg			05/30/22 00:49	

Lab Sample ID: 890-2345-4 **Client Sample ID: SS04** Date Collected: 05/24/22 15:45 Matrix: Solid

Date Received: 05/25/22 16:13

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/01/22 16:19	06/02/22 09:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			06/01/22 16:19	06/02/22 09:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130			06/01/22 16:19	06/02/22 09:25	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/01/22 10:25	1
			0.00403	mg/Kg			06/01/22 10:25	1
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR		0.00403	mg/Kg Unit	D	Prepared	06/01/22 10:25 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR/ Result <49.8	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR Result <49.8	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR Result <49.8	Qualifier U RO) (GC) Qualifier	RL 49.8	<mark>Unit</mark> mg/Kg			Analyzed 05/31/22 09:45	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR/Result <49.8 e Organics (D/Result Result)	Qualifier U RO) (GC) Qualifier	RL	Unit mg/Kg		Prepared	Analyzed 05/31/22 09:45 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result <49.8 e Organics (D/Result Result)	Qualifier U RO) (GC) Qualifier U	RL	Unit mg/Kg		Prepared	Analyzed 05/31/22 09:45 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <49.8 e Organics (D/Result <49.8) <p>449.8</p>	Qualifier U RO) (GC) Qualifier U U U U	RL 49.8 RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/27/22 11:19 05/27/22 11:19	Analyzed 05/31/22 09:45 Analyzed 05/28/22 06:32 05/28/22 06:32	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <49.8 e Organics (D/Result <49.8)	Qualifier U RO) (GC) Qualifier U U U U	RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 05/27/22 11:19	Analyzed 05/31/22 09:45 Analyzed 05/28/22 06:32	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR/Result <49.8 e Organics (D/Result <49.8) <p>449.8</p>	Qualifier U RO) (GC) Qualifier U U U U	RL 49.8 RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/27/22 11:19 05/27/22 11:19	Analyzed 05/31/22 09:45 Analyzed 05/28/22 06:32 05/28/22 06:32	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte	Organics (DR/Result	Qualifier U RO) (GC) Qualifier U U U U	RL 49.8 RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/27/22 11:19 05/27/22 11:19	Analyzed 05/31/22 09:45 Analyzed 05/28/22 06:32 05/28/22 06:32	Dil Fac Dil Fac 1

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6/2/2022

Matrix: Solid

Client Sample Results

 Client: Ensolum
 Job ID: 890-2345-1

 Project/Site: PLU 20-24-30 BATTERY
 SDG: 03E1558052

Client Sample ID: SS04 Lab Sample ID: 890-2345-4

Date Collected: 05/24/22 15:45
Date Received: 05/25/22 16:13

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		25.0	mg/Kg			05/30/22 00:56	5

4

5

7

0

4 4

12

16

12

Surrogate Summary

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance L
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-15244-A-5-D MS	Matrix Spike	95	103	
880-15244-A-5-E MSD	Matrix Spike Duplicate	105	101	
880-15333-A-1-A MS	Matrix Spike	113	97	
80-15333-A-1-B MSD	Matrix Spike Duplicate	110	91	
90-2345-1	SS01	113	97	
390-2345-2	SS02	101	104	
90-2345-3	SS03	96	103	
90-2345-4	SS04	116	98	
.CS 880-26464/1-A	Lab Control Sample	103	102	
CS 880-26594/1-A	Lab Control Sample	99	98	
CSD 880-26464/2-A	Lab Control Sample Dup	87	104	
CSD 880-26594/2-A	Lab Control Sample Dup	106	99	
/IB 880-26464/5-A	Method Blank	102	100	
/IB 880-26594/5-A	Method Blank	97	96	
MB 880-26634/5-A	Method Blank	99	99	
Surrogate Legend				
BFB = 4-Bromofluorober	zene (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)	
890-2339-A-1-C MS	Matrix Spike	91	87	
890-2339-A-1-D MSD	Matrix Spike Duplicate	86	83	
890-2345-1	SS01	99	105	
890-2345-2	SS02	83	85	
890-2345-3	SS03	81	83	
890-2345-4	SS04	87	89	
LCS 880-26433/2-A	Lab Control Sample	101	100	
LCSD 880-26433/3-A	Lab Control Sample Dup	102	104	
MB 880-26433/1-A	Method Blank	103	119	
Surrogate Legend				

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-2345-1 SDG: 03E1558052 Project/Site: PLU 20-24-30 BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26464/5-A

Matrix: Solid Analysis Batch: 26542 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26464

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 13:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 13:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 13:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/27/22 15:07	05/31/22 13:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/27/22 15:07	05/31/22 13:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/27/22 15:07	05/31/22 13:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/27/22 15:07	05/31/22 13:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/27/22 15:07	05/31/22 13:12	1

Lab Sample ID: LCS 880-26464/1-A

Matrix: Solid

Analysis Batch: 26542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26464

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09145		mg/Kg		91	70 - 130	
Toluene	0.100	0.08551		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.09034		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1798		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.08334		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-26464/2-A

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 26542

Prep Type: Total/NA Prep Batch: 26464

RPD LCSD LCSD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.1022 mg/Kg 102 70 - 130 11 35 0.100 0.08769 mg/Kg 88 70 - 130 3 35 0.100 0.09090 mg/Kg 91 70 - 130 35 0.200 0.1731 mg/Kg 87 70 - 130 35

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-15244-A-5-D MS

Matrix: Solid

Analysis Batch: 26542

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

70 - 130

35

Prep Batch: 26464

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.09274		mg/Kg		92	70 - 130	
Toluene	<0.00202	U	0.101	0.07569		mg/Kg		75	70 - 130	

0.100

0.07906

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QC Sample Results

Job ID: 890-2345-1 Client: Ensolum Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

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

Lab Sample ID: 880-15244-A-5-D MS

Lab Sample ID: 880-15244-A-5-E MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 26542

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26464

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U F1 0.101 0.06897 F1 68 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00403 UF1 0.202 0.1325 F1 mg/Kg 66 70 - 130 0.101 o-Xylene <0.00202 UF1 0.06031 F1 mg/Kg 60 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26464

RPD

Analysis Batch: 26542 Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.0998 Benzene <0.00202 U 0.09451 mg/Kg 95 70 - 130 2 35 Toluene <0.00202 U 0.0998 0.08715 87 mg/Kg 70 - 130 14 35 Ethylbenzene <0.00202 UF1 0.0998 0.08866 mg/Kg 89 70 - 130 25 35 0.200 87 70 - 130 27 35 m-Xylene & p-Xylene <0.00403 U F1 0.1739 mg/Kg 0.0998 <0.00202 U F1 0.07883 79 70 - 130 27 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-26594/5-A

Matrix: Solid

Analysis Batch: 26643

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26594

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/31/22 16:19	06/02/22 01:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/31/22 16:19	06/02/22 01:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/31/22 16:19	06/02/22 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/31/22 16:19	06/02/22 01:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/31/22 16:19	06/02/22 01:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/31/22 16:19	06/02/22 01:41	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	05/31/22 16:19	06/02/22 01:41	1
1 4-Difluorobenzene (Surr)	96	70 - 130	05/31/22 16:19	06/02/22 01:41	1

Lab Sample ID: LCS 880-26594/1-A

Matrix: Solid

Analysis Batch: 26643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26594

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08799		mg/Kg		88	70 - 130	
Toluene	0.100	0.09392		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.08626		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1953		mg/Kg		98	70 - 130	

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Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1 SDG: 03E1558052

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

Lab Sample ID: LCS 880-26594/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 26643** Prep Batch: 26594

mg/Kg

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.09675 97 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-26594/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 26643 Prep Batch: 26594

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.09569		mg/Kg		96	70 - 130	8	35
0.100	0.1025		mg/Kg		102	70 - 130	9	35
0.100	0.09549		mg/Kg		95	70 - 130	10	35
0.200	0.2175		mg/Kg		109	70 - 130	11	35
0.100	0.1071		mg/Kg		107	70 - 130	10	35
	Added 0.100 0.100 0.100 0.200	Added Result 0.100 0.09569 0.100 0.1025 0.100 0.09549 0.200 0.2175	Added Result Qualifier 0.100 0.09569 0.100 0.1025 0.100 0.09549 0.200 0.2175	Added Result Qualifier Unit 0.100 0.09569 mg/Kg 0.100 0.1025 mg/Kg 0.100 0.09549 mg/Kg 0.200 0.2175 mg/Kg	Added Result Qualifier Unit D 0.100 0.09569 mg/Kg 0.100 0.1025 mg/Kg 0.100 0.09549 mg/Kg 0.200 0.2175 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09569 mg/Kg 96 0.100 0.1025 mg/Kg 102 0.100 0.09549 mg/Kg 95 0.200 0.2175 mg/Kg 109	Added Result Qualifier Unit D %Rec Limits 0.100 0.09569 mg/Kg 96 70 - 130 0.100 0.1025 mg/Kg 102 70 - 130 0.100 0.09549 mg/Kg 95 70 - 130 0.200 0.2175 mg/Kg 109 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.09569 mg/Kg 96 70 - 130 8 0.100 0.1025 mg/Kg 102 70 - 130 9 0.100 0.09549 mg/Kg 95 70 - 130 10 0.200 0.2175 mg/Kg 109 70 - 130 11

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-15333-A-1-A MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 26643 Prep Batch: 26594

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1 F2	0.0996	0.04287	F1	mg/Kg		43	70 - 130	
Toluene	<0.00199	U F1 F2	0.0996	0.04839	F1	mg/Kg		49	70 - 130	
Ethylbenzene	< 0.00199	U F1 F2	0.0996	0.04763	F1	mg/Kg		48	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.1098	F1	mg/Kg		55	70 - 130	
o-Xylene	< 0.00199	U F1 F2	0.0996	0.05829	F1	mg/Kg		59	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-15333-A-1-B MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 26643** Prep Batch: 26594

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.101	0.006088	F1 F2	mg/Kg		6	70 - 130	150	35
Toluene	<0.00199	U F1 F2	0.101	0.006930	F1 F2	mg/Kg		7	70 - 130	150	35
Ethylbenzene	<0.00199	U F1 F2	0.101	0.008770	F1 F2	mg/Kg		9	70 - 130	138	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.201	0.01836	F1 F2	mg/Kg		9	70 - 130	143	35
o-Xylene	<0.00199	U F1 F2	0.101	0.01326	F1 F2	mg/Kg		13	70 - 130	126	35

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

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

Lab Sample ID: 880-15333-A-1-B MSD

Matrix: Solid

Analysis Batch: 26643

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26594

MSD MSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 91 70 - 130

Lab Sample ID: MB 880-26634/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 26643

Prep Type: Total/NA

Prep Batch: 26634

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 06/01/22 10:25 06/01/22 14:03 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 06/01/22 10:25 06/01/22 14:03 <0.00200 U 0.00200 06/01/22 10:25 06/01/22 14:03 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 06/01/22 10:25 06/01/22 14:03 o-Xylene <0.00200 U 0.00200 mg/Kg 06/01/22 10:25 06/01/22 14:03 Xylenes, Total <0.00400 U 0.00400 mg/Kg 06/01/22 10:25 06/01/22 14:03

MB MB

MR MR

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/01/22 10:25	06/01/22 14:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/01/22 10:25	06/01/22 14:03	1

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

Lab Sample ID: MB 880-26433/1-A

Matrix: Solid

Analysis Batch: 26398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26433

	14.0	1410						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/27/22 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/27/22 21:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/27/22 11:19	05/27/22 21:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/27/22 11:19	05/27/22 21:34	1
o-Terphenyl	119		70 - 130	05/27/22 11:19	05/27/22 21:34	1

Lab Sample ID: LCS 880-26433/2-A

Matrix: Solid Analysis Batch: 26398

Released to Imaging: 7/18/2022 8:13:40 AM

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

Prep Batch: 26433

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1020		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	956.6		mg/Kg		96	70 - 130	
C10 C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	101	70 - 130
o-Terphenyl	100	70 - 130

Job ID: 890-2345-1 Client: Ensolum Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

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

Lab Sample ID: LCSD 880-26433/3-A

Matrix: Solid

Lab Sample ID: 890-2339-A-1-C MS

Analysis Batch: 26398

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 26433

Spike LCSD LCSD RPD Added Limit Analyte Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics 1000 928.2 mg/Kg 93 70 - 130 9 (GRO)-C6-C10 1000 970.6 Diesel Range Organics (Over mg/Kg 97 70 - 130

20

C10-C28)

LCSD LCSD

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 102 o-Terphenyl 104 70 - 130

Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 26398

Prep Type: Total/NA

Prep Batch: 26433

	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	1000	881.3		mg/Kg	_	87	70 - 130	
Diesel Range Organics (Over	<50.0	U	1000	803.2		mg/Kg		80	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	91	70 - 130
o-Terphenyl	87	70 - 130

Lab Sample ID: 890-2339-A-1-D MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 26433

Analysis Batch: 26398 Sample Sample Spike MSD MSD %Rec **RPD** Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD

<50.0 U 999 20 Gasoline Range Organics 773.2 76 70 - 130 13 mg/Kg (GRO)-C6-C10 <50.0 U 999 776.1 78 70 - 130 20 Diesel Range Organics (Over mg/Kg 3 C10-C28)

MSD MSD Surrogate Qualifier Limits %Recovery 1-Chlorooctane 86 70 - 130 83 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26324/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 26501

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/29/22 21:46	1

QC Sample Results

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY

SDG: 03E1558052

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-26324/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26501

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-26324/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26501

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 257.7 mg/Kg 103 90 - 110

Lab Sample ID: 890-2343-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 26501

MS MS %Rec Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 19.0 250 266.4 90 - 110 mg/Kg

Lab Sample ID: 890-2343-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 26501

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits Chloride 19.0 250 274.8 102 90 - 110 20 mg/Kg

Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1 SDG: 03E1558052

GC VOA

Prep Batch: 26464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	5035	
890-2345-2	SS02	Total/NA	Solid	5035	
890-2345-3	SS03	Total/NA	Solid	5035	
MB 880-26464/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26464/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26464/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15244-A-5-D MS	Matrix Spike	Total/NA	Solid	5035	
880-15244-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	8021B	26464
890-2345-2	SS02	Total/NA	Solid	8021B	26464
890-2345-3	SS03	Total/NA	Solid	8021B	26464
MB 880-26464/5-A	Method Blank	Total/NA	Solid	8021B	26464
LCS 880-26464/1-A	Lab Control Sample	Total/NA	Solid	8021B	26464
LCSD 880-26464/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26464
880-15244-A-5-D MS	Matrix Spike	Total/NA	Solid	8021B	26464
880-15244-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26464

Prep Batch: 26594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2345-4	SS04	Total/NA	Solid	5035	
MB 880-26594/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26594/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26594/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15333-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-15333-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	Total BTEX	
890-2345-2	SS02	Total/NA	Solid	Total BTEX	
890-2345-3	SS03	Total/NA	Solid	Total BTEX	
890-2345-4	SS04	Total/NA	Solid	Total BTEX	

Prep Batch: 26634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26634/5-A	Method Blank	Total/NA	Solid	5035	_

Analysis Batch: 26643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-4	SS04	Total/NA	Solid	8021B	26594
MB 880-26594/5-A	Method Blank	Total/NA	Solid	8021B	26594
MB 880-26634/5-A	Method Blank	Total/NA	Solid	8021B	26634
LCS 880-26594/1-A	Lab Control Sample	Total/NA	Solid	8021B	26594
LCSD 880-26594/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26594
880-15333-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	26594
880-15333-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26594

Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1 SDG: 03E1558052

GC Semi VOA

Analysis Batch: 26398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	8015B NM	26433
890-2345-2	SS02	Total/NA	Solid	8015B NM	26433
890-2345-3	SS03	Total/NA	Solid	8015B NM	26433
890-2345-4	SS04	Total/NA	Solid	8015B NM	26433
MB 880-26433/1-A	Method Blank	Total/NA	Solid	8015B NM	26433
LCS 880-26433/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26433
LCSD 880-26433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26433
890-2339-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	26433
890-2339-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26433

Prep Batch: 26433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	8015NM Prep	
890-2345-2	SS02	Total/NA	Solid	8015NM Prep	
890-2345-3	SS03	Total/NA	Solid	8015NM Prep	
890-2345-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-26433/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26433/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26433/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2339-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2339-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Total/NA	Solid	8015 NM	
890-2345-2	SS02	Total/NA	Solid	8015 NM	
890-2345-3	SS03	Total/NA	Solid	8015 NM	
890-2345-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Soluble	Solid	DI Leach	
890-2345-2	SS02	Soluble	Solid	DI Leach	
890-2345-3	SS03	Soluble	Solid	DI Leach	
890-2345-4	SS04	Soluble	Solid	DI Leach	
MB 880-26324/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26324/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26324/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2343-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2343-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 26501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2345-1	SS01	Soluble	Solid	300.0	26324
890-2345-2	SS02	Soluble	Solid	300.0	26324
890-2345-3	SS03	Soluble	Solid	300.0	26324
890-2345-4	SS04	Soluble	Solid	300.0	26324
MB 880-26324/1-A	Method Blank	Soluble	Solid	300.0	26324
LCS 880-26324/2-A	Lab Control Sample	Soluble	Solid	300.0	26324

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Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY

SDG: 03E1558052

HPLC/IC (Continued)

Analysis Batch: 26501 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-26324/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26324
890-2343-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	26324
890-2343-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	26324

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1

SDG: 03E1558052

Client Sample ID: SS01

Client: Ensolum

Lab Sample ID: 890-2345-1

Matrix: Solid

Date Collected: 05/24/22 15:30 Date Received: 05/25/22 16:13

	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	26464	05/27/22 15:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26542	05/31/22 20:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26633	06/01/22 10:25	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26556	05/31/22 09:45	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26433	05/27/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26398	05/28/22 05:29	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	26324	05/27/22 12:50	SC	XEN MID
Soluble	Analysis	300.0		1			26501	05/30/22 00:37	SC	XEN MID

Client Sample ID: SS02 Lab Sample ID: 890-2345-2

Date Collected: 05/24/22 15:35 Matrix: Solid

Date Received: 05/25/22 16:13

Analysis

300.0

Soluble

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 26464 Total/NA 5.01 g 5 mL 05/27/22 15:07 MR XEN MID Total/NA 8021B 5 mL 05/31/22 20:31 XEN MID Analysis 1 5 mL 26542 MR Total/NA Total BTEX 26633 06/01/22 10:25 XEN MID Analysis SM 1 Total/NA Analysis 8015 NM 26556 05/31/22 09:45 SM XEN MID Total/NA 26433 XEN MID Prep 8015NM Prep 10.02 g 05/27/22 11:19 DM 10 mL Total/NA Analysis 8015B NM 26398 05/28/22 05:51 SM XEN MID Soluble SC XEN MID Leach DI Leach 4.99 g 50 mL 26324 05/27/22 12:50

Lab Sample ID: 890-2345-3 **Client Sample ID: SS03**

26501

05/30/22 00:43

SC

XEN MID

Matrix: Solid

Date Collected: 05/24/22 15:40 Date Received: 05/25/22 16:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26464	05/27/22 15:07	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26542	05/31/22 20:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26633	06/01/22 10:25	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26556	05/31/22 09:45	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26433	05/27/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26398	05/28/22 06:12	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26324	05/27/22 12:50	SC	XEN MID
Soluble	Analysis	300.0		1			26501	05/30/22 00:49	SC	XEN MID

Client Sample ID: SS04 Lab Sample ID: 890-2345-4

Matrix: Solid Date Collected: 05/24/22 15:45 Date Received: 05/25/22 16:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	26594	06/01/22 16:19	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26643	06/02/22 09:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26633	06/01/22 10:25	SM	XEN MID

Lab Chronicle

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY SDG: 03E1558052

Client Sample ID: SS04 Lab Sample ID: 890-2345-4

Date Collected: 05/24/22 15:45 Matrix: Solid Date Received: 05/25/22 16:13

	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			26556	05/31/22 09:45	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	26433	05/27/22 11:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26398	05/28/22 06:32	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26324	05/27/22 12:50	SC	XEN MID
Soluble	Analysis	300.0		5			26501	05/30/22 00:56	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2345-1 Project/Site: PLU 20-24-30 BATTERY

SDG: 03E1558052

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22 06-30-22		
The following analytes the agency does not of		ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1

SDG: 03E1558052

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
00.0	Anions, Ion Chromatography	MCAWW	XEN MID
035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 20-24-30 BATTERY

Job ID: 890-2345-1

SDG: 03E1558052

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2345-1	SS01	Solid	05/24/22 15:30	05/25/22 16:13	0.5
890-2345-2	SS02	Solid	05/24/22 15:35	05/25/22 16:13	0.5
890-2345-3	SS03	Solid	05/24/22 15:40	05/25/22 16:13	0.5
890-2345-4	SS04	Solid	05/24/22 15:45	05/25/22 16:13	0.5

eurofins

Environment Testing

Phone:

City, State ZIP: Address: Project Manager:

acong Ensolum

Morrissey

Bill to: (if different)

Company Name: Address:

Company Name:

Sampler's Name:

12450

Parker

Due Date:

PRoutine

Rush

Code

Turn Around

ANALYSIS REQUEST

HCL: HC H2S04:H2

Cool: Cool

MeOH: Me DI Water: H₂O

HNO :: HN

None: NO

Preservative Codes

TAT starts the day received by the lab, if received by 4:30pm

Temp Blank:

CYES No Thermometer ID:

Wet Ice:

Yes No

Parameters

HOD WIN

0.0

roject Location:

roject Number:

0361558052

PL4 20-24-30 Byses

257-8307

City, State ZIP:

roject Name:

Sample Custody Seals: Cooler Custody Seals: Samples Received Intact: SAMPLE RECEIPT

Yes No MIA Yes No

Chain of Custody

Midland, TX (432) EL Paso, TX (91 Hobbs, NM (57 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Deliverables: EDD ADAPI Coner:	
Reporting: Level III Level III PST/UST TRRP Level IV	
State of Project:	
Program: UST/PST PRP Brownfields RRC Superfund	X70
Work Order Comments	Adriah Baker
www.xenco.com Page of	
	5) 392-7550, Carlsbad, NM (575) 988-3199
	5) 585-3443, Lubbock, TX (806) 794-1296
Work Order No:) 704-5440, San Antonio, TX (210) 509-3334
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)		Relipquished by (Signature)
	ons ol gotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	fins Xenco, its affiliates and s ses Incurred by the client If s urofins Xenco, but not analy	n client company to Euro ty for any losses or exper ch sample submitted to E	constitutes a valid purchase order fro s and shall not assume any responsibil each project and a charge of \$5 for ea	nd relinquishment of samples le only for the cost of sample e of \$85.00 will be applied to	ice: Signature of this document ar ervice. Eurofins Xenco will be liab urofins Xenco. A minimum charge
/7471	U Hg: 1631 / 245.1 / 7470 / 7471	TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	b As Ba Be Cd C	6010 : 8RCRA S		letal(s) to be analy	Circle Method(s) and Metal(s) to be analyzed
A	Mo Mn Mo Ni K Se Ag SiO. Na Sr TI Sn II V Za	OBCON 13DDM Tagget 11 At Ch As Ba Ba B Cd Ca Cr Co Ct Ea Dh Ma Ma Ma	Ar Ba Ba B Cd	Towas 11 Al Sh	0BCBA 13BBM	2000 / 6000	1
				3			
							/.
			* <	<	V 1545	<	140 55
4:108/09/00	07:70				1540		5503
NAPP 22/093708	NAG				1535		5502
Tacident TO:	Inci		× ×	2.5	Shy/22 1530	>	5501
Sample Comments	Sa		BI TI	Depth Grab/ # of Cont	Date Time De	Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	-	-	EX OH Or	5	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn			ide	6.0	Temperature Reading:	Yes No ALLA	Sample Custody Seals:
Na 20 20 3. Maso 3			5	0	Correction Factor:	Yes No N/A	Cooler Custody Seals:

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na 25 203: NaSO 3 NaHSO 4: NABIS H3PO 4: HP

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2345-1 SDG Number: 03E1558052

List Source: Eurofins Carlsbad

Login Number: 2345 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.	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").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2345-1 SDG Number: 03E1558052

> **List Source: Eurofins Midland** List Creation: 05/27/22 10:54 AM

Creator: Rodriguez, Leticia

Login Number: 2345

List Number: 2

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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2385-1

Laboratory Sample Delivery Group: 03E1558052

Client Project/Site: PLU 20-24-30

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Tacoma Morrissey

MAMER

Authorized for release by: 6/20/2022 9:30:48 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

results through
EOL.

Have a Question?

------ LINKS ------

Review your project

Ask—The Expert

Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 7/18/2022 8:13:40 AM

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

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Client: Ensolum

Project/Site: PLU 20-24-30

Laboratory Job ID: 890-2385-1 SDG: 03E1558052

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Definitions/Glossary

Client: Ensolum Job ID: 890-2385-1 Project/Site: PLU 20-24-30

SDG: 03E1558052

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

6/20/2022 (Rev. 1)

Case Narrative

Client: Ensolum

Project/Site: PLU 20-24-30

Job ID: 890-2385-1

SDG: 03E1558052

Job ID: 890-2385-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2385-1

REVISION

The report being provided is a revision of the original report sent on 6/13/2022. The report (revision 1) is being revised due to per client email, updating BH01 @ 0-3' depth to 0.5'.

Report revision history

Receipt

The samples were received on 6/7/2022 3:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 24.4°C

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27248 and analytical batch 880-27332 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-2385-1

Client: Ensolum Job ID: 890-2385-1 Project/Site: PLU 20-24-30 SDG: 03E1558052

Client Sample ID: BH01 @ 0.5'

Date Collected: 06/07/22 12:00 Date Received: 06/07/22 15:07

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
Toluene	< 0.00199	U	0.00199	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/09/22 11:24	06/09/22 21:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			06/09/22 11:24	06/09/22 21:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130			06/09/22 11:24	06/09/22 21:49	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<0.00398	11					00/40/00 40:04	1
Total BTEX Method: 8015 NM - Diesel Rar			0.00398 BC)	mg/Kg			06/10/22 10:31	ı
iotal BTEX Method: 8015 NM - Diesel Rai				mg/Kg			06/10/22 10:31	'
Method: 8015 NM - Diesel Rar Analyte	nge Organic Result	s (DRO) (O	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (O	GC)	0 0	<u>D</u>	Prepared		
Method: 8015 NM - Diesel Rar Analyte	nge Organic Result <50.0	s (DRO) (O Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	nge Organic Result <50.0 ange Organ Result	s (DRO) (O Qualifier U	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel Ra	nge Organic Result <50.0	s (DRO) (O Qualifier U	RL 50.0	Unitmg/Kg	_ =	<u> </u>	Analyzed 06/13/22 09:04	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result <50.0 ange Organ Result	s (DRO) (O Qualifier U ics (DRO) Qualifier U	RL 50.0 (GC)	Unit mg/Kg	_ =	Prepared 06/10/22 08:24	Analyzed 06/13/22 09:04 Analyzed	
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	nge Organic Result <50.0 ange Organ Result <50.0	s (DRO) (O Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg	_ =	Prepared 06/10/22 08:24 06/10/22 08:24	Analyzed 06/13/22 09:04 Analyzed 06/11/22 22:57	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organic Result <50.0 ange Organ Result <50.0 <50.0	s (DRO) (C Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0 RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 06/10/22 08:24 06/10/22 08:24	Analyzed 06/13/22 09:04 Analyzed 06/11/22 22:57 06/11/22 22:57	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ranalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organic Result <50.0 ange Organ Result <50.0 <50.0 <50.0	s (DRO) (C Qualifier U ics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 06/10/22 08:24 06/10/22 08:24	Analyzed 06/13/22 09:04 Analyzed 06/11/22 22:57 06/11/22 22:57 Analyzed	1 Dil Fac

Client Sample ID: BH01 @ 1'

Date Collected: 06/07/22 12:10 Date Received: 06/07/22 15:07

Sample Depth: 1'

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
Ethylbenzene	0.00262		0.00202	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/09/22 11:24	06/09/22 22:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			06/09/22 11:24	06/09/22 22:10	1

RL

4.98

Unit

mg/Kg

D

Prepared

Analyzed

06/10/22 22:57

Lab Sample ID: 890-2385-2

Dil Fac

Matrix: Solid

Result Qualifier

36.4

Client: Ensolum Job ID: 890-2385-1

Project/Site: PLU 20-24-30 SDG: 03E1558052

Client Sample ID: BH01 @ 1' Lab Sample ID: 890-2385-2 Date Collected: 06/07/22 12:10 Matrix: Solid Date Received: 06/07/22 15:07

Sample Depth: 1'

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	4	S1-	70 - 130			06/09/22 11:24	06/09/22 22:10	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/10/22 10:31	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (G	SC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
							06/13/22 09:04	
	<50.0		50.0 (GC)	mg/Kg			06/13/22 09:04	
				mg/Kg			06/13/22 09:04	
Total TPH Method: 8015B NM - Diesel R Analyte	ange Organi Result	ics (DRO) Qualifier	(GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	ange Organi	ics (DRO) Qualifier	(GC)		D	Prepared 06/10/22 08:24		Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10	ange Organi Result	ics (DRO) Qualifier	(GC)	Unit mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ange Organ Result <50.0	ics (DRO) Qualifier	(GC) RL 50.0	Unit	<u>D</u>	06/10/22 08:24	Analyzed 06/11/22 23:18	Dil Fac
Method: 8015B NM - Diesel R	ange Organ Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg	<u>D</u>	06/10/22 08:24	Analyzed 06/11/22 23:18	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ange Organ Result <50.0	Qualifier U	(GC) RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	06/10/22 08:24 06/10/22 08:24	Analyzed 06/11/22 23:18 06/11/22 23:18	Dil Fac
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ange Organ Result <50.0 <50.0	Qualifier U	(GC) RL 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	06/10/22 08:24 06/10/22 08:24 06/10/22 08:24	Analyzed 06/11/22 23:18 06/11/22 23:18 06/11/22 23:18	

RL

4.95

Unit

mg/Kg

Prepared

Analyzed

06/10/22 23:25

Result Qualifier

27.6

Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2385-1 Project/Site: PLU 20-24-30 SDG: 03E1558052

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Lim					
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
890-2381-A-1-K MS	Matrix Spike	107	104					
890-2381-A-1-L MSD	Matrix Spike Duplicate	103	102					
890-2385-1	BH01 @ 0.5'	121	97					
890-2385-2	BH01 @ 1'	92	4 S1-					
LCS 880-27169/1-A	Lab Control Sample	104	99					
LCSD 880-27169/2-A	Lab Control Sample Dup	109	95					
MB 880-27169/5-A	Method Blank	98	97					

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent S				
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
890-2385-1	BH01 @ 0.5'	94	102				
890-2385-2	BH01 @ 1'	85	88				
890-2388-A-61-I MS	Matrix Spike	93	90				
890-2388-A-61-J MSD	Matrix Spike Duplicate	82	80				
LCS 880-27248/2-A	Lab Control Sample	99	104				
LCSD 880-27248/3-A	Lab Control Sample Dup	93	96				
MB 880-27248/1-A	Method Blank	91	102				

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Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2385-1 Project/Site: PLU 20-24-30 SDG: 03E1558052

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27169/5-A

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27169

,	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/09/22 11:24	06/09/22 16:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/09/22 11:24	06/09/22 16:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/09/22 11:24	06/09/22 16:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/09/22 11:24	06/09/22 16:24	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	06/09/22 11:24	06/09/22 16:24	1
1,4-Difluorobenzene (Surr)	97	70 - 130	06/09/22 11:24	06/09/22 16:24	1

Lab Sample ID: LCS 880-27169/1-A

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27169

		Spike	LCS	LCS				%Rec	
Anal	lyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benz	zene	0.100	0.08701		mg/Kg		87	70 - 130	
Tolue	ene	0.100	0.09313		mg/Kg		93	70 - 130	
Ethyl	lbenzene	0.100	0.08725		mg/Kg		87	70 - 130	
m-Xy	ylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130	
o-Xy	lene	0.100	0.09882		mg/Kg		99	70 - 130	
1									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-27169/2-A

Matrix: Solid

Analysis Batch: 27183

Client	Sample	ID: L	_ab	Conti	ol ·	Samp	le	Dup)
				_	_	_			

Prep Type: Total/NA Prep Batch: 27169

	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifie	r Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.08058	mg/Kg	81	70 - 130	8	35
Toluene	0.100	0.08864	mg/Kg	89	70 - 130	5	35
Ethylbenzene	0.100	0.08534	mg/Kg	85	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1981	mg/Kg	99	70 - 130	1	35
o-Xylene	0.100	0.09984	mg/Kg	100	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-2381-A-1-K MS

Matrix: Solid

Analysis Batch: 27183

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

Prep Batch: 27169

Allalysis Datell. 21 100								r rep Daten. 21			
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.101	0.1070		mg/Kg		106	70 - 130		
Toluene	< 0.00199	U	0.101	0.1057		mg/Kg		105	70 - 130		

Client: Ensolum Job ID: 890-2385-1 SDG: 03E1558052 Project/Site: PLU 20-24-30

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

Lab Sample ID: 890-2381-A-1-K MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 27183 Prep Batch: 27169 Spike Sample Sample

	Campie	Campie	Opike	1410	IVIO				/orkec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.09944		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2272		mg/Kg		113	70 - 130	
o-Xylene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-2381-A-1-L MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 27183

Prep Type: Total/NA

Prep Batch: 27169

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00199 U 0.0996 0.09863 mg/Kg 70 - 130 8 35 99 Toluene <0.00199 U 0.0996 0.09833 99 70 - 130 35 mg/Kg 7 Ethylbenzene <0.00199 U 0.0996 0.09226 mg/Kg 93 70 - 130 7 35 m-Xylene & p-Xylene <0.00398 U 0.199 0.2103 mg/Kg 106 70 - 130 8 35 <0.00199 U 0.0996 0.1033 104 o-Xylene mg/Kg 70 - 130

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-27248/1-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 27248

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 06/10/22 08:24 06/11/22 20:47 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 06/10/22 08:24 06/11/22 20:47 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 06/10/22 08:24 06/11/22 20:47

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	91	70 - 130	06/10/22 08:24 06/11/22 20:47	7 1
o-Terphenyl	102	70 - 130	06/10/22 08:24 06/11/22 20:47	7 1

Lab Sample ID: LCS 880-27248/2-A

Matrix: Solid

Analysis Batch: 27332

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

Prep Batch: 27248

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1011		mg/Kg		101	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1113		mg/Kg		111	70 - 130	
C10-C28)								

Client: Ensolum Job ID: 890-2385-1 SDG: 03E1558052 Project/Site: PLU 20-24-30

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

Lab Sample ID: LCS 880-27248/2-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27248

LCS LCS %Recovery Qualifier Surrogate

1-Chlorooctane 99 70 - 130 o-Terphenyl 104 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-27248/3-A

Limits

Matrix: Solid

Analysis Batch: 27332

Prep Type: Total/NA

Prep Batch: 27248

LCSD LCSD %Rec **RPD** Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 938.2 mg/Kg 94 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1062 mg/Kg 106 70 - 130 5 20

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 70 - 130 o-Terphenyl 96

Lab Sample ID: 890-2388-A-61-I MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 27332

Prep Type: Total/NA

Prep Batch: 27248

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec <49.9 U F2 F1 Gasoline Range Organics 997 1007 mg/Kg 97 70 - 130 (GRO)-C6-C10 997 Diesel Range Organics (Over <49.9 U 817.8 mg/Kg 82 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 93 o-Terphenyl 90 70 - 130

Lab Sample ID: 890-2388-A-61-J MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 27332

Prep Type: Total/NA

Prep Batch: 27248 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit D %Rec Gasoline Range Organics <49.9 U F2 F1 1000 2753 F1 F2 271 70 - 130 93 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 703.5 mg/Kg 70 70 - 130 15 20

C10-C28)

MSD MSD %Recovery Qualifier 82

Limits Surrogate 1-Chlorooctane 70 - 130 o-Terphenyl 80 70 - 130

Client: Ensolum

Job ID: 890-2385-1

SDG: 03E1558052

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27175/1-A

Lab Sample ID: LCS 880-27175/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 27311

Matrix: Solid

Matrix: Solid

Project/Site: PLU 20-24-30

MB MB

Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 5.00 06/10/22 19:43 Chloride <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 27311

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 256.1 mg/Kg 102

Lab Sample ID: LCSD 880-27175/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 27311

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 260.4 104 90 - 110 20 mg/Kg

Lab Sample ID: 820-4502-A-11-D MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 27311

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 249 325.5 78.5 mg/Kg 90 - 110

Lab Sample ID: 820-4502-A-11-E MSD

Matrix: Solid

Analysis Batch: 27311

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Limits RPD Limit Result Qualifier %Rec Chloride 78.5 249 318.7 97 20 mg/Kg 90 - 110

Client: Ensolum

Project/Site: PLU 20-24-30

Job ID: 890-2385-1 SDG: 03E1558052

GC VOA

Prep Batch: 27169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	5035	
890-2385-2	BH01 @ 1'	Total/NA	Solid	5035	
MB 880-27169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 27183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	8021B	27169
890-2385-2	BH01 @ 1'	Total/NA	Solid	8021B	27169
MB 880-27169/5-A	Method Blank	Total/NA	Solid	8021B	27169
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	8021B	27169
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27169
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	27169
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27169

Analysis Batch: 27285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	Total BTEX	
890-2385-2	BH01 @ 1'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 27248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	8015NM Prep	
890-2385-2	BH01 @ 1'	Total/NA	Solid	8015NM Prep	
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2388-A-61-I MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2388-A-61-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	8015B NM	27248
890-2385-2	BH01 @ 1'	Total/NA	Solid	8015B NM	27248
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015B NM	27248
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27248
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27248
890-2388-A-61-I MS	Matrix Spike	Total/NA	Solid	8015B NM	27248
890-2388-A-61-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27248

Analysis Batch: 27367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Total/NA	Solid	8015 NM	
890-2385-2	BH01 @ 1'	Total/NA	Solid	8015 NM	

Client: Ensolum Job ID: 890-2385-1 Project/Site: PLU 20-24-30

SDG: 03E1558052

HPLC/IC

Leach Batch: 27175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Soluble	Solid	DI Leach	
890-2385-2	BH01 @ 1'	Soluble	Solid	DI Leach	
MB 880-27175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-4502-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
820-4502-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 27311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2385-1	BH01 @ 0.5'	Soluble	Solid	300.0	27175
890-2385-2	BH01 @ 1'	Soluble	Solid	300.0	27175
MB 880-27175/1-A	Method Blank	Soluble	Solid	300.0	27175
LCS 880-27175/2-A	Lab Control Sample	Soluble	Solid	300.0	27175
LCSD 880-27175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27175
820-4502-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	27175
820-4502-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27175

Job ID: 890-2385-1

Client: Ensolum Project/Site: PLU 20-24-30 SDG: 03E1558052

Client Sample ID: BH01 @ 0.5'

Date Collected: 06/07/22 12:00 Date Received: 06/07/22 15:07

Lab Sample ID: 890-2385-1

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	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27183	06/09/22 21:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27285	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27367	06/13/22 09:04	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	27248 27332	06/10/22 08:24 06/11/22 22:57		XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.02 g	50 mL	27175 27311	06/09/22 11:59 06/10/22 22:57		XEN MID XEN MID

Client Sample ID: BH01 @ 1'

Date Collected: 06/07/22 12:10 Date Received: 06/07/22 15:07

Lab Sample ID: 890-2385-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 27169 06/09/22 11:24 EL XEN MID Prep 4.96 g 5 mL Total/NA 8021B 06/09/22 22:10 MR XEN MID Analysis 5 mL 5 mL 27183 1 Total/NA Analysis **Total BTEX** 1 27285 06/10/22 10:31 AJ XEN MID Total/NA 8015 NM XEN MID Analysis 1 27367 06/13/22 09:04 AJ Total/NA Prep 8015NM Prep 10.01 g 10 mL 27248 06/10/22 08:24 DM XEN MID Total/NA 8015B NM Analysis 1 27332 06/11/22 23:18 AJ XEN MID Soluble 06/09/22 11:59 CH DI Leach 5.05 g 50 mL 27175 XEN MID Leach 300.0 Soluble Analysis 1 27311 06/10/22 23:25 CH XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-2385-1

 Project/Site: PLU 20-24-30
 SDG: 03E1558052

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	T104704400-21-22	06-30-22
The following englyte	a are included in this rene	art but the laboratory is r	and portified by the governing outhority	This list was include an abite of an
		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for
the agency does not on Analysis Method		Matrix	Analyte	I his list may include analytes for the
the agency does not o	offer certification.	•	, , ,	This list may include analytes for

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Method Summary

Client: Ensolum

Project/Site: PLU 20-24-30

Job ID: 890-2385-1

SDG: 03E1558052

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: PLU 20-24-30

Job ID: 890-2385-1

SDG: 03E1558052

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2385-1	BH01 @ 0.5'	Solid	06/07/22 12:00	06/07/22 15:07	0.5
890-2385-2	BH01 @ 1'	Solid	06/07/22 12:10	06/07/22 15:07	1'

Environment Testing Xenco	Houston, TX (4: All Paso, TX (5: Hobbs, NM (5: Hobbs, NM (5: NM (tody x (214) 902-0300 p, Tx (210) 509-333 fx (806) 794-1296 NM (575) 988-3199	Work Order No: MTP-CODING IN PROGRESS Of) Of)
na Morrissey	Bill to: (if different)	Adrian Baker	Work Order Comments
um /	Company Name:	XTO Enery Inc	Program: UST/PST PRP Brownfields RRC Superfund
A Holadon AHA	Address:	6to N Hol. day Hill O-	State of Project:
404/25 11/4	City, State ZIP:	Midland, Tx 79707	Reporting: Level III Level III PST/UST TRRP Level IV

			1051 celt	(6)	Stuf	wend	An	
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	Received b	ature)	Relinquished by: (Signature)
No. 11 April 1093 708	Lost Center	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 iterms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	fins Xenco, its affiliates and sul ses Incurred by the client if su urofins Xenco, but not analyze	client company to Euro for any losses or exper h sample submitted to E	valid purchase order from assume any responsibility and a charge of \$5 for each	ples constitutes a r ples and shall not to each project a	nd relinquishment of sam le only for the cost of san e of \$85.00 will be applie	ce: Signature of this document a strice. Eurofins Xenco will be lial urofins Xenco. A minimum charg
7471	Hg: 1631 / 245.1 / 7470 / 7471	TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	b As Ba Be Cd Cr	010 : 8RCRA :	TCLP / SPLP 6	alyzed	letal(s) to be an	Circle Method(s) and Metal(s) to be analyzed
V Zn	Vi K Se		As Ba Be B Cd Ca	13PPM Texas 11 Al Sb As Ba	8RCRA 13PPM T	81	200.8 / 6020:	Total 200.7 / 6010
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			X X	,	1910 1			B10101
			× ×	1 dest	1300 0	16/I/9	3	BH0100-3"
Sample Comments	Sar		1	oth Comp Cont	Time Depth	Date Sampled	n Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOH+A:		PL	14.4	Corrected Temperature:	Corrected T	1	Total Containers:
Zn Acetate+NaOH: Zn	Zn Aceta		1	21.10	re Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
: NaSO 3	Na ₂ S ₂ O ₃ : NaSO ₃	890-2385 Chain of Custody	\ id	P	actor:	Correction Factor:	Yes No MA	Cooler Custody Seals:
NABIS	NaHSO 4: NABIS		-	AM-DD-T	7	Thermometer ID:	16 M	Samples Received Intact:
₹	H ₃ PO ₄ ; HP			neter	Wet Ice:	Yes 🐔	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ SO ₄ : H ₂			1_	the lab, if received by 4:30pm			
HNO 3: HN	HCL: HC	-		ceived by	TAT starts the day received by	10	7	
меон: ме	Cool: Cool				Due Date:	-103, 9005	966	
O Di Water: H ₂ O	None: NO			Rush Code	X Routine	353	0351358052	er:
Preservative Codes	Pre	ANALYSIS REQUEST		nd br	Turn Around	-30	74-06 01-30	Project Name:
Other:	iles: EDD ADaPT	exxon mobilicom Deliverables:	0	adrian, baker	Email:	4.058-4	1-450-425	Phone:

Eurofins Carlsbad

1089 N Canal St

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Chain of Custody Record

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Environment Testing

State Zip TX 79701 PLU 20-24-30 Midland Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory 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 complicance to Eurofins Environment Testing South Central LLC. BH01@1' (890-2385-2) BH01@0-3" (890-2385-1) Sample Identification - Client ID (Lab ID) 132-704-5440(Tel) 1211 W Florida Ave ossible Hazard Identification eliverable Requested | II III IV Other (specify) oject Name urofins Environment Testing South Centr linquished by mpty Kit Relinquished by linquished by ipping/Receiving ient Information inquished by: (Sub Contract Lab) Custody Seal No Project # 89000093 PO #: Date/Time Date/Time Primary Deliverable Rank 2 TAT Requested (days) Phone: Sample Date 6/7/22 6/7/22 Mountain 12 10 Date Mountain 12 00 G=grab) (C=comp, Preservation Code: Type Company Company Company Matrix Solid Solid Jessica Kramer@et.eurofinsus com E-Mail Kramer Jessica Field Filtered Sample (Yes or No) **NELAP** - Texas Ime 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 Disposed But I sh 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × Cooler Temperature(s) °C and Other Remarks. deceived by × Return To Client × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × × × 8021B/5035FP Calc (MOD) BTEX Analysis × Total_BTEX_GCV Requested Disposal By Lab New Mexico State of Origin: Carrier Tracking No(s) Method of Shipment Date/Time Archive For Total Number of containers A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E MeNHSO4
F MeOH
G Amchlor
H Ascorbic Acid
J I Ice
J DI Water
K EDTA
L EDA COC No 890-784 1 Preservation Codes Page 1 of 1 Special Instructions/Note 00 M Hexane
N None
O - AsNaO2
P Na2O4S
Q Na2SO3
R Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Trizma
Z other (specify) Company Ver: 06/08/2021 Months

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2385-1 SDG Number: 03E1558052

Login Number: 2385 **List Source: Eurofins Carlsbad**

List Number: 1

Creator: Stutzman, Amanda

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

Released to Imaging: 7/18/2022 8:13:40 AM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2385-1

SDG Number: 03E1558052

List Source: Eurofins Midland
List Number: 2
List Creation: 06/09/22 11:11 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 <6mm (1/4").	N/A	

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APPENDIX E

NMOCD Notifications

Green, Garrett J

From: Green, Garrett J

Sent: Monday, April 11, 2022 10:13 AM

To: Mike Bratcher; Victoria Venegas; Rob Hamlet; ocd.enviro@state.nm.us

Cc: DelawareSpills /SM; McSpadden, Wes; Sanders, David; Pennington, Shelby G

Subject: XTO 48 Hour Liner Inspection Notification - PLU 20-24-30

Follow Up Flag: Follow up Flag Status: Follow up

Good morning,

This is sent as a 48-hour notification, XTO is scheduled to inspect the lined containment at PLU 20-24-30 released on (4/5/2022), on Wednesday, April 13, 2022, at 8 a.m. MST. A 24 hour release notification was not sent since the release was less than 25 barrels in volume. Please call us with any questions or concerns.

GPS Coordinates: (32.21029,-103.90050)

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

From: Aimee Cole
To: Tacoma Morrissey

Subject: FW: XTO - Sampling Notification (week of 6/6/22 - 6/10/22)

Date: Thursday, June 2, 2022 3:30:36 PM

Attachments: image001.png

image002.png image003.png image004.png

For your records, I think these are all your sites!



Aimee Cole

Senior Managing Scientist 720-384-7365 Ensolum, LLC

From: Green, Garrett J <garrett.green@exxonmobil.com>

Sent: Thursday, June 2, 2022 12:25 PM

To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Aimee Cole <acole@ensolum.com>

Subject: XTO - Sampling Notification (week of 6/6/22 - 6/10/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of June 6, 2022.

Tuesday, June 7th

- PLU 20-24-30 / nAPP2210937085

Wednesday, June 8th

- PLU 28 Big Sinks 127H / nAPP2210143304

Thursday, June 9th

- PLU 28 Big Sinks 127H / nAPP2210143304
- Remuda Basin 1 / NAB1836137253

Friday, June 10th

- Remuda Basin 1/ NAB1836137253

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 120249

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	120249
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2210937085 PLU 20-24-30 TANK BATTERY, thank you. This closure is approved.	7/18/2022