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	NAPP2204943884
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy			OGRID 5	5380				
Contact Name Adrian Baker			Contact Telephone 432-236-3808					
	Contact email adrian.baker@exxonmobil.com					(assigned by OCD)		
			Rd Bldg 5, Midla	nd, Tex	as, 79707			
			Location	of R	elease So	ource		
Latitude 32	2.36851				Longitude _	-103.86746		·
			(NAD 83 in dec	cimal deg	grees to 5 decim	aal places)		
Site Name JI	RU Legg Bat	tery			Site Type	Tank Battery		
Date Release	Discovered	02/04/2022			API# (if app	licable)		
Unit Letter	Section	Township	Range		Coun	4	 1	
-	27	22S	30E			<u> </u>	_	
В	21	225	30E		Eddy	y]	
Surface Owne	r: State	➤ Federal ☐ Ti	ribal Private (A	Name: _)
			Nature and	t Val	uma of L	Palassa		
Crude Oi		l(s) Released (Select all Volume Release	ll that apply and attach	calculati	ons or specific	justification for the Volume Reco		below)
Produced		Volume Release			Volume Recovered (bbls)			
Troduced	· water		tion of total dissol	ved sol	, ,			
		in the produced	water >10,000 mg		ids (1DS)			
	ate	Volume Release	ed (bbls) 580.0	ı		Volume Reco	vered (bbls)	580.0
Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units		e units)	S) Volume/Weight Recovered (provide units)					
Cause of Release Freezing weather caused a Victaulic clamp to fail, releasing fluids into impermeable cotainment. All fluids were recovered. A 48-hour liner inspection notice was sent to NMOCD District 2. Liner was inspected and determined not to be operating as designed. A third-party contractor has been retained for remediation purposes.								

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Page 2 Oil Conservation Division

State of New Mexico

Incident ID

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District RP		
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Application ID		

Was this a major	If YES, for what reason(s) does the respor	sible party consider this a major release?	
release as defined by	A release equal to or greater than 25 barrel	s.	
19.15.29.7(A) NMAC?			
Yes No			
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?	
	·	>; 'Victoria Venegas' <victoria.venegas@state.nm.us>; 'Rob</victoria.venegas@state.nm.us>	
		s' on Saturday, February 5, 2022 5:37 PM via email.	
	Initial Re	esponse	
Tl:L1-		•	
The responsible	party must undertake the following actions immediately	v unless they could create a safety hazard that would result in injury	
The source of the rele	**		
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.	
All free liquids and re	ecoverable materials have been removed and	d managed appropriately.	
If all the actions describe	d above have <u>not</u> been undertaken, explain v	why:	
NA			
Per 10 15 20 8 R (4) NM	IAC the responsible party may commence r	emediation immediately after discovery of a release. If remediation	
		efforts have been successfully completed or if the release occurred	
within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the info	rmation given above is true and complete to the	pest of my knowledge and understand that pursuant to OCD rules and	
		ications 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			
	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws	
and/or regulations.		GOVE G I'	
Printed Name: Adrian Ba	iker 1	Title: SSHE Coordinator	
Signature:	Ch al	Date: 2/18/22	
	ronmohil com		
email: adrian.baker@exx	COMMOUNT.COM	Telephone: 432-236-3808	
OCD Only			
Received by: Ramon	na Marcus	Date: 2/21/2022	

Location:	JRU Legg Battery		
Spill Date:	2/4/2022		
	Area 1		
Approximate A	rea =	3256.46	cu.ft.
	VOLUME OF LEAK		×-
Total Condensate = 580.00 bbls			bbls
Total Produced Water = 0.00			bbls
TOTAL VOLUME OF LEAK			
Total Condensa	ate=	580.00	bbls
Total Produced Water = 0.00		bbls	
TOTAL VOLUME RECOVERED			
Total Condensa	ate=	580.00	bbls
Total Produced Water = 0.00 bbl			bbls

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

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

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

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 82673

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road Midland, TX 79707	Action Number: 82673
· · · · · · · · · · · · · · · · · · ·	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rmarcus	None	2/21/2022

	I uge 5 of 17
Incident ID	NAPP2204943884
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Site Assessment/Characterization

this information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)		
Did this release impact groundwater or surface water?	Yes X 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 X 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 X No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes X 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 X 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

X Photographs including date and GIS information

Laboratory data including chain of custody

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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: Adrian Baker Title: Environmental Coordinator Clebrion Bakes 06/09/2022 Signature: Date: email: adrian.baker@exxonmobil.com Telephone: <u>432-236-3808</u> **OCD Only** Received by:

State of New Mexico Incident ID

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Incident ID	NAPP2204943884	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be com-	afirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around predeconstruction.			
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Adrian Baker	Title:Environmental Coordinator		
Clobian Bajes Signature:	06/09/2022 Date:		
Email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808		
0000			
OCD Only			
Received by:	Date:		
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature: Jannifer Nobili	Date: 08/26/2022		



June 9, 2022

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

Re: Deferral Request

JRU Legg Battery

Incident Number NAPP2204943884

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Deferral Request to document site assessment and soil sampling activities performed at the James Ranch Unit (JRU) Legg Battery (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of condensate within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Deferral Request, requesting deferral of final remediation for Incident Number NAPP2204943884 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 27, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.36851° N, 103.86746°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

On February 4, 2022, freezing weather caused a Victaulic clamp to fail, resulting in the release of approximately 580 barrels (bbls) of condensate into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 580 bbls of released condensate 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 by XTO personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. XTO reported the release to the NMOCD via email on February 5, 2022 and submitted a Release Notification Form C-141 (Form C-141) on February 18, 2022. The release was assigned Incident Number NAPP2204943884.

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.

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



Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico of the Office State Engineer (NMOSE) Well C-03015, located approximately 2,216 feet northwest of the Site. The groundwater well has a reported depth to groundwater of 262 feet bgs and a total depth of 1,316 feet bgs. Ground surface elevation at the groundwater well location is 3,285 feet above mean sea level (amsl), which is approximately 13 feet lower in elevation than the Site. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced Well Record is included in Appendix A.

The closest continuously flowing or significant water source to the Site is a unnamed dry wash, located approximately 2,713 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On April 19, 2022, Ensolum personnel visited the Site to evaluate the release extent and conduct site assessment activities. One borehole (BH01) was advanced via hand auger to a depth of 2 feet bgs at the location of the tear in the liner to assess the vertical extent of impacted soil. Delineation soil samples BH01, BH01A, and BH01B were collected from borehole BH01 at depths ranging from 0.5 feet to 2 feet bgs. Four additional assessment points (SS01 through SS04) were advanced around the lined containment to confirm the lateral extent of a potential release. Delineation soil samples SS01/SS01A through SS04/SS04A were collected from the delineation points at depths ranging from 0.5 feet to 2 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were documented on lithologic/soil sampling logs, which are included as Appendix B. Upon completion of site assessment activities, XTO repaired the tear in the liner. The soil sample locations are depicted on Figure 2. Photographic documentation 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 delineation soil samples BH01 and BH01A, indicated that TPH and/or TPH-DRO/TPH-GRO concentrations exceeded the Closure Criteria at depths of 0.5 feet and 1-foot bgs, directly beneath the tear in the liner. Subsequent delineation sample BH01B, collected at 2 feet bgs, indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for the delineation soil samples SS01/SS01A through SS04/SS04A, collected at depths ranging from 0.5 feet to 2 feet bgs around the lined containment, indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the 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.

DEFFERAL REQUEST

XTO is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. The impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath the liner is delineated vertically by delineation soil sample BH01B collected at 2 feet bgs, and laterally by delineation soil samples SS01/SS01A through SS04/SS04A collected at depths ranging from 0.5 feet to 2 feet bgs. A maximum of 725 cubic yards of TPH impacted soil remains in place beneath the liner assuming a maximum 2-foot depth based on the delineation soil samples listed above, that were compliant with the Closure Criteria.

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

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number NAPP2204943884 until final reclamation of the well pad or major construction, whichever comes first.

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

Sincerely, Ensolum, LLC

Kalei Jennings Senior Scientist

alui Jennings

Aimee Cole Senior Managing Scientist



cc: Adrian Baker, XTO

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

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

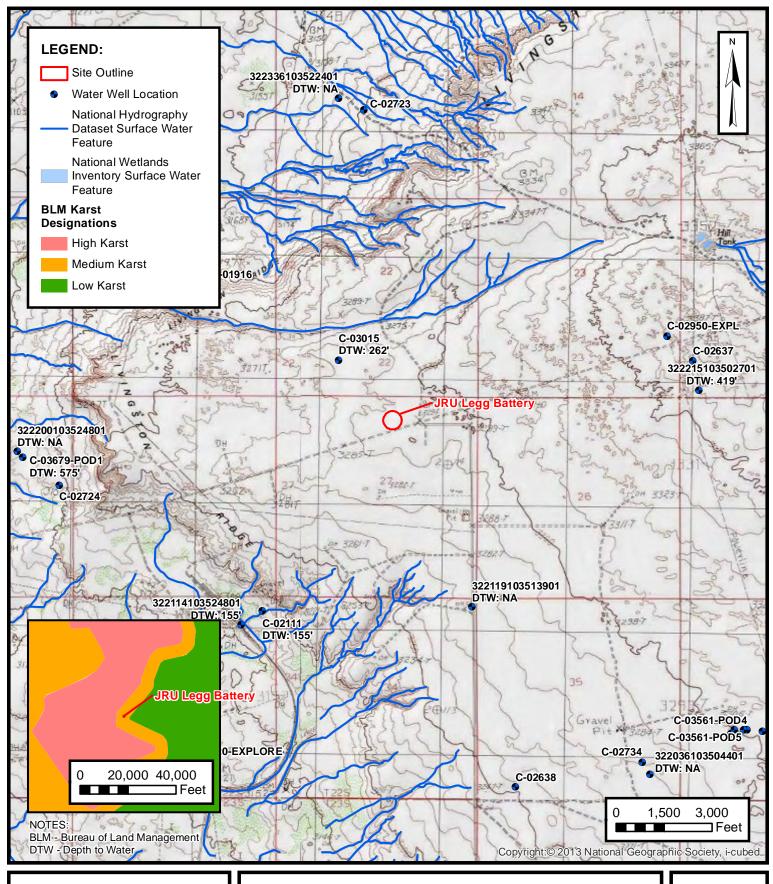
Appendix C Photographic Log

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

Appendix E NMOCD Sample Notification



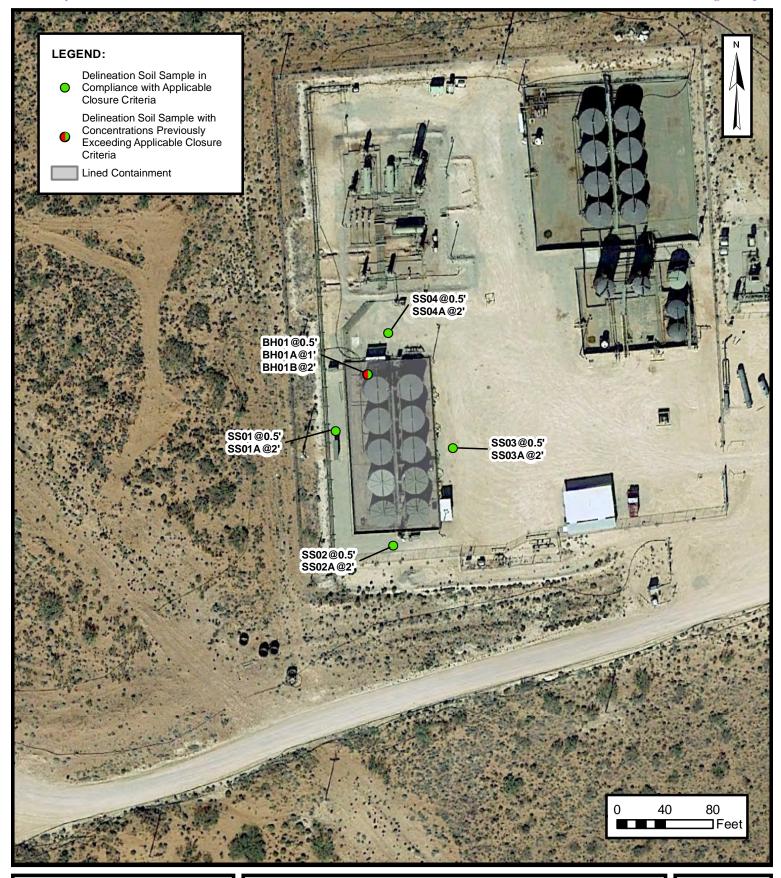
FIGURES





SITE RECEPTOR MAP

XTO ENERGY, INC JRU LEGG BATTERY NAPP2204943884 Unit B, Sec 27, T22S, R30E Eddy County, New Mexico **FIGURE**





DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC JRU LEGG BATTERY NAPP2204943884 Unit B, Sec 27, T22S, R30E Eddy County, New Mexico **FIGURE**



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS JRU Legg 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 (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	ry Assessment So	oil Samples				
BH01	04/19/2022	0.5	0.518	25.0	1,270	1,940	337	2,277	3,550	24.2
BH01A	04/19/2022	1	0.715	42.0	1,240	241	100	1,481	1,580	19.5
BH01B	04/19/2022	2	0.140	8.53	213	458	<50.0	671	671	22.5
SS01	04/19/2022	0.5	<0.00200	0.00974	<50.0	<50.0	<50.0	<50.0	<50.0	5.18
SS01A	05/12/2022	2	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.05
SS02	04/19/2022	0.5	0.0127	0.0161	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
SS02A	05/12/2022	2	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	16.9
SS03	04/19/2022	0.5	0.0143	0.0206	<50.0	<50.0	<50.0	<50.0	<50.0	117
SS03A	05/12/2022	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97
SS04	04/19/2022	0.5	0.0059	0.0102	<49.9	<49.9	<49.9	<49.9	<49.9	27.8
SS04A	05/12/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Ensolum 1 of 1



APPENDIX A

Referenced Well Records

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Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

C 03015 4 3 22 22S 30E

606099 3582353*

Driller License: 331 Driller Company:

SBO2, LLC DBA STEWART BROTHERS DRILLING

CO.

Driller Name: Drill Start Date:

01/21/2004

Drill Finish Date:

01/25/2004

Plug Date:

Log File Date:

PCW Rev Date:

Depth Well:

Source: Artesian

Pump Type: Casing Size: 03/04/2004

6.00

Pipe Discharge Size:

1316 feet

Estimated Vield: Depth Water:

Water Bearing Stratifications:

Bottom Description

262 feet

362

Other/Unknown

Casing Perforations:

Top Bottom

261 386

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/7/22 9:33 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Eddy County, New Mexico
Latitude 32°21'14", Longitude 103°52'48" NAD27
Land-surface elevation 3,163 feet above NAVD88
The depth of the well is 248 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

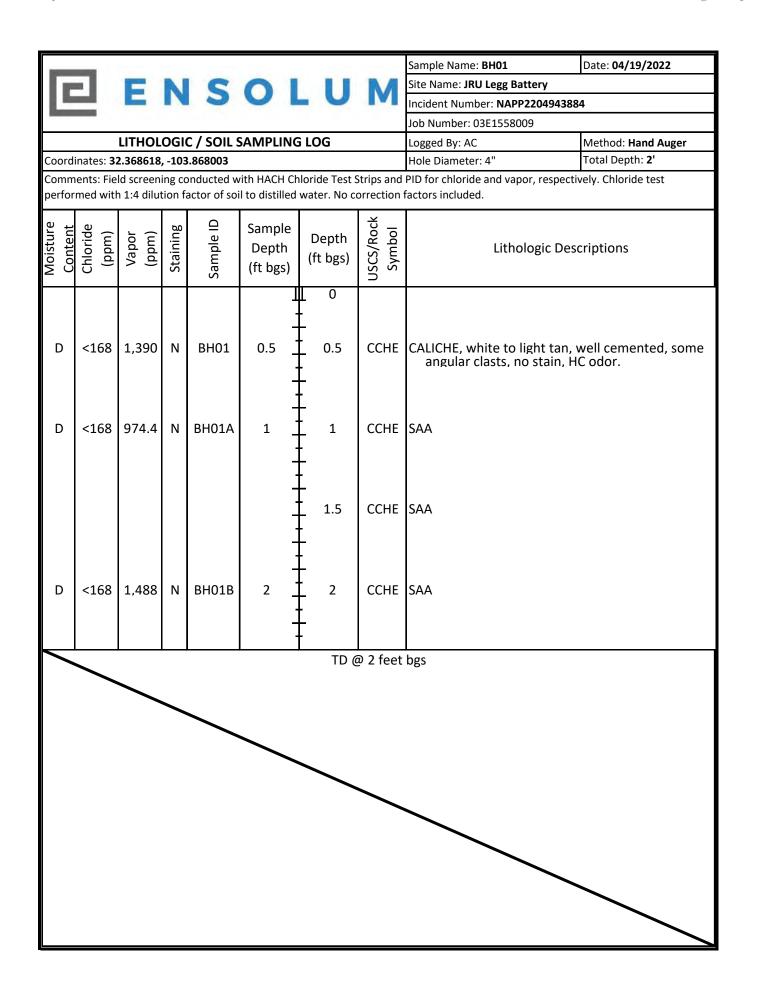
Output formats			
Table of data			
Tab-separated data			
Graph of data			
Reselect period			

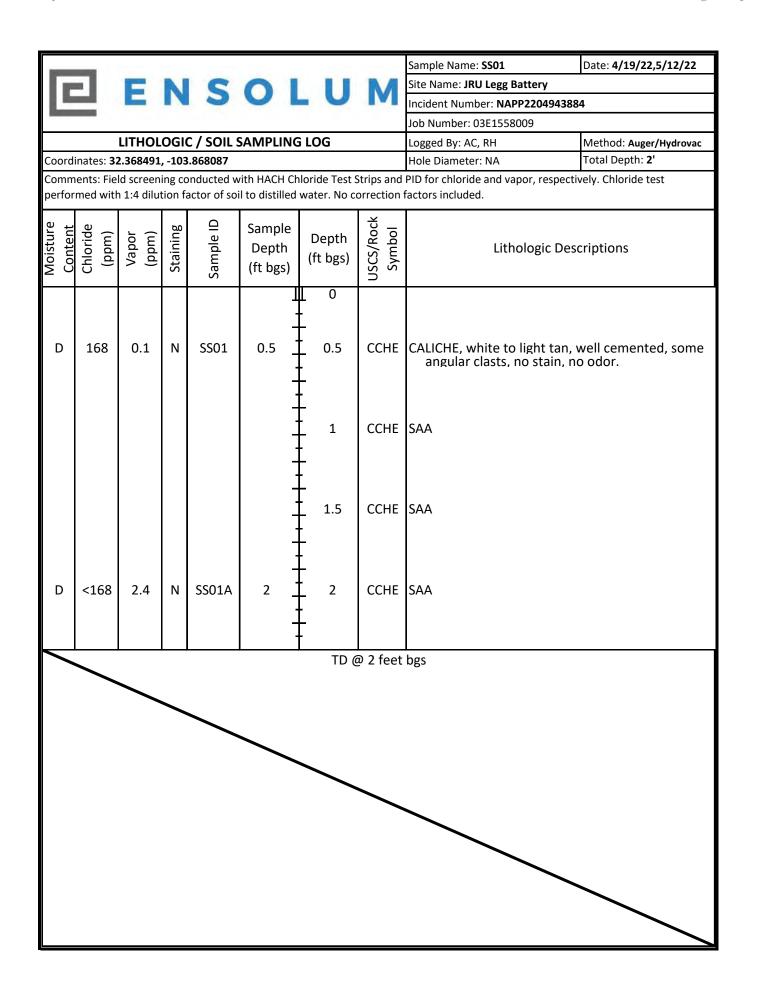
Date \$	Time \$	Water-level date-time accuracy	Parameter \$ code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	Status \$	Method of \$ measurement	Measuring \$ agency	Source of \$ measurement	Water- level \$ approval status
1956-02-25		D	62610		2977.69	NGVD29	1	Z			А
1956-02-25		D	62611		2979.30	NAVD88	1	Z			А
1956-02-25		D	72019	183.70			1	Z			А
1983-01-19		D	62610		3000.01	NGVD29	1	Z			А
1983-01-19		D	62611		3001.62	NAVD88	1	Z			А
1983-01-19		D	72019	161.38			1	Z			А
1987-10-21		D	62610		3002.13	NGVD29	1	Z			A
1987-10-21		D	62611		3003.74	NAVD88	1	Z			Α
1987-10-21		D	72019	159.26			1	Z			А
1992-12-09		D	62610		3004.57	NGVD29	1	S			А
1992-12-09		D	62611		3006.18	NAVD88	1	S			А
1992-12-09		D	72019	156.82			1	S			A
1998-02-02		D	62610		3006.65	NGVD29	1	S			А
1998-02-02		D	62611		3008.26	NAVD88	1	S			Α
1998-02-02 Released to Ima	aging: 8/26/2022 1	1:43:27 PM	72019	154.74			1	S			А

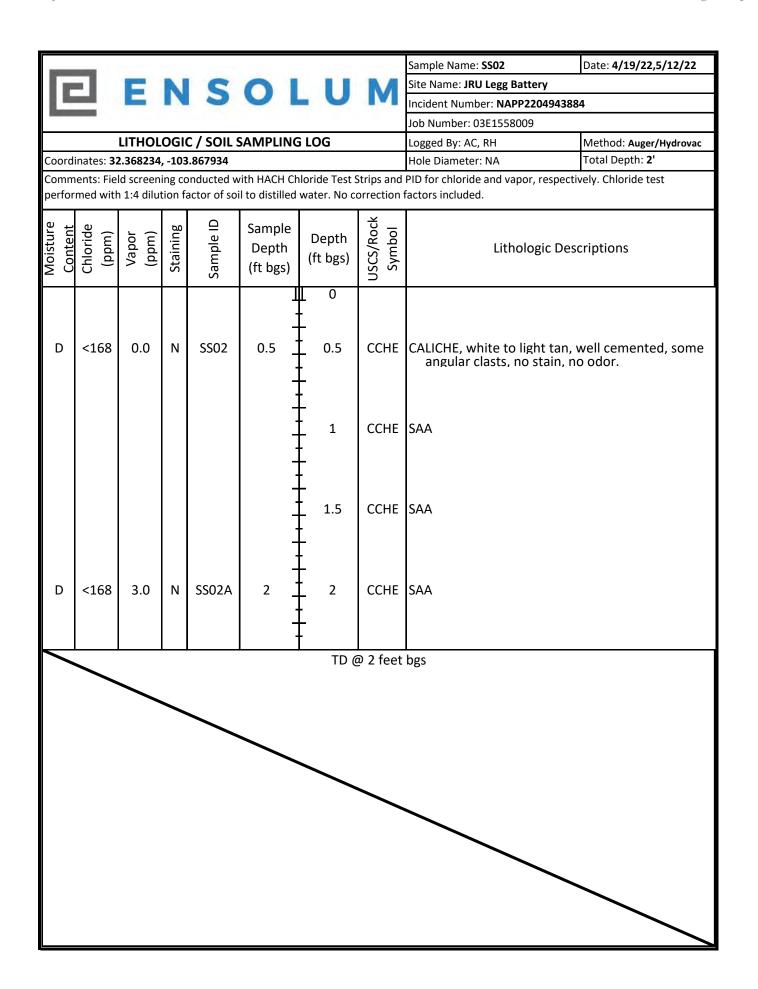


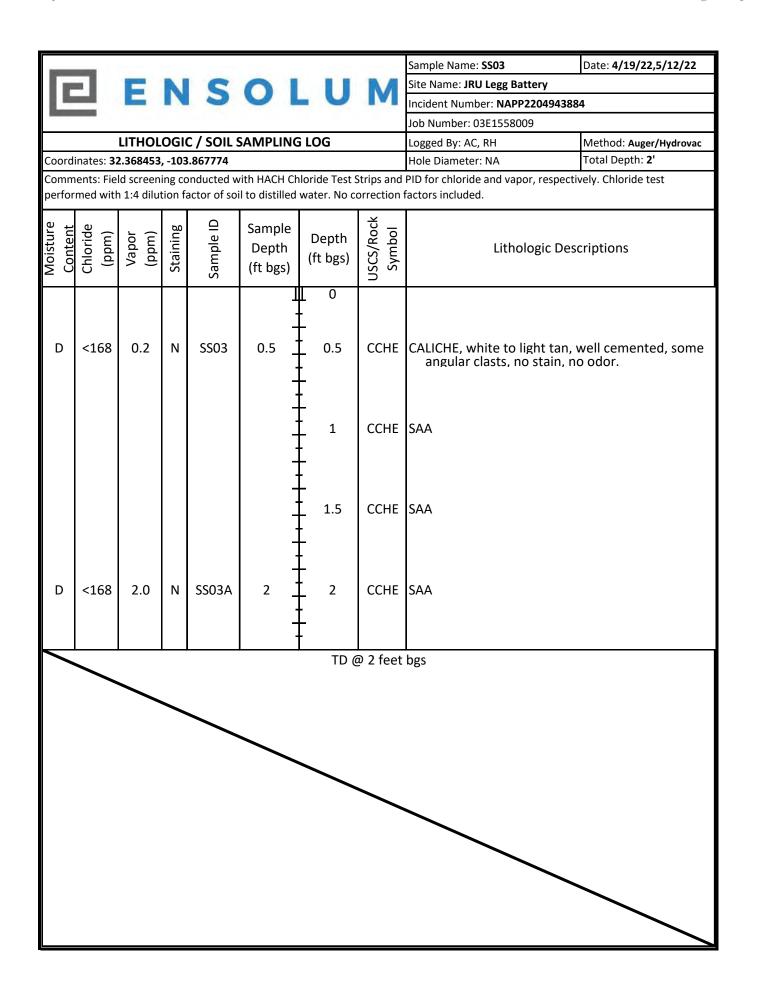
APPENDIX B

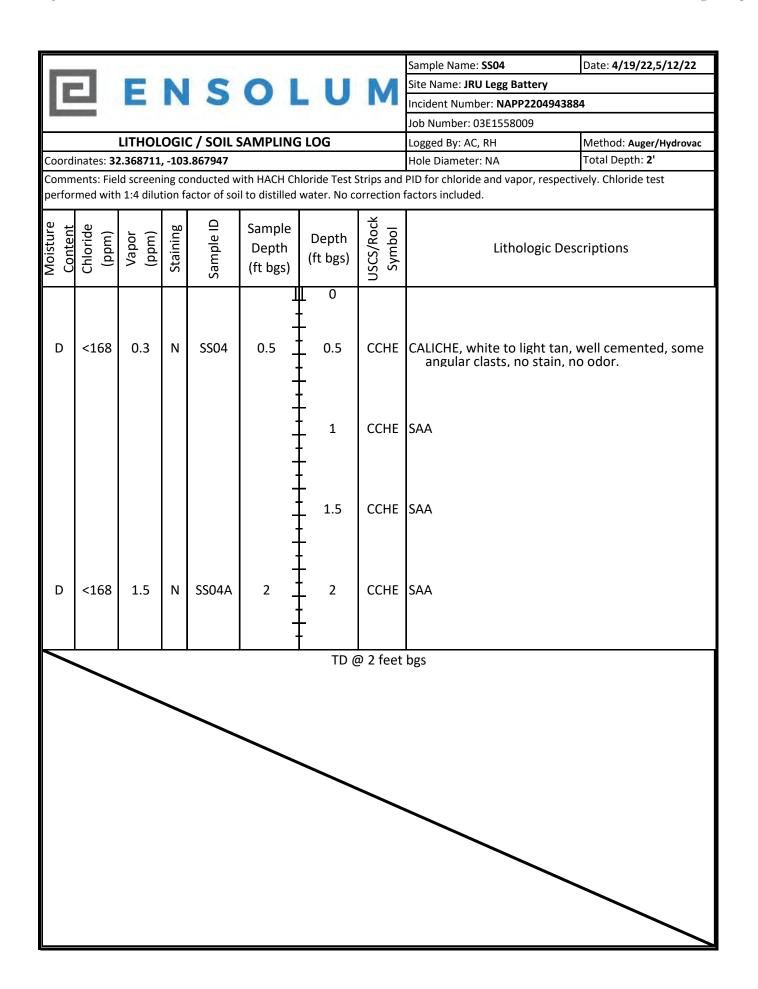
Lithologic Soil Sampling Logs













APPENDIX C

Photographic Log

ENSOLUM

Photographic Log

XTO Energy, Inc.
JRU Legg Battery
Incident Number NAPP2204943884



Photograph 1

Date: February 14, 2022

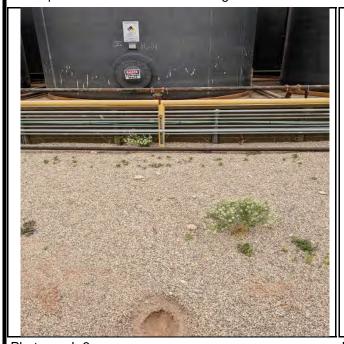
Description: Photo of liner tear during initial site visit.



Photograph 2

Date: April 19, 2022

Description: Photo of liner during delineation activities.



Photograph 3

Date: April 19, 2022

Description: Photo of delineation outside containment.



Photograph 4

Date: April 19, 2022

Description: Photo of patched liner after delineation.



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: 890-2210-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MRAMER

Authorized for release by: 4/22/2022 4:28:24 PM

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: 8/26/2022 1:43:27 PM

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
Project/Site: JRU LEGG BATTERY
Laboratory Job ID: 890-2210-1
SDG: 03E1558009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2210-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Qualifiers

GC VOA Qualifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

LOQ

MCL

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)	

()

ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

	. tot Galealatea
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

RER	Relative Error Ratio (Radiochemistry)
DI	Paparting Limit or Paguasted Limit (Padiachemistry)

IXL	reporting Limit of Requested Limit (IV	adiocrieffistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2210-1 SDG: 03E1558009

Job ID: 890-2210-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2210-1

Receipt

The samples were received on 4/19/2022 4:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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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Matrix: Solid

Lab Sample ID: 890-2210-1

Client Sample Results

Client: Ensolum Job ID: 890-2210-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: BH01

Date Collected: 04/19/22 13:00 Date Received: 04/19/22 16:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.518		0.0998	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
Toluene	4.69		0.0998	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
Ethylbenzene	3.31		0.0998	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
m-Xylene & p-Xylene	12.6		0.200	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
o-Xylene	3.90		0.0998	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
Xylenes, Total	16.5		0.200	mg/Kg		04/21/22 11:35	04/22/22 05:29	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130			04/21/22 11:35	04/22/22 05:29	50
1,4-Difluorobenzene (Surr)	99		70 - 130			04/21/22 11:35	04/22/22 05:29	50
Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	25.0		0.200	mg/Kg			04/22/22 11:18	
Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	3550		50.0	mg/Kg			04/22/22 17:19	
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1270	*1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 16:00	
Diesel Range Organics (Over C10-C28)	1940	*1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 16:00	
Oll Range Organics (Over C28-C36)	337		50.0	mg/Kg		04/21/22 15:22	04/22/22 16:00	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	120		70 - 130			04/21/22 15:22	04/22/22 16:00	
o-Terphenyl	117		70 - 130			04/21/22 15:22	04/22/22 16:00	
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	24.2		5.00	mg/Kg			04/22/22 02:36	

Client Sample ID: BH01A

Date Collected: 04/19/22 13:10

Lab Sample ID: 890-2210-2

Matrix: Solid

Date Collected: 04/19/22 13:10 Date Received: 04/19/22 16:26

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.715		0.100	mg/Kg		04/21/22 11:35	04/22/22 05:50	50
Toluene	10.6		0.100	mg/Kg		04/21/22 11:35	04/22/22 05:50	50
Ethylbenzene	5.36		0.100	mg/Kg		04/21/22 11:35	04/22/22 05:50	50
m-Xylene & p-Xylene	20.4		0.200	mg/Kg		04/21/22 11:35	04/22/22 05:50	50
o-Xylene	4.94		0.100	mg/Kg		04/21/22 11:35	04/22/22 05:50	50
Xylenes, Total	25.3		0.200	mg/Kg		04/21/22 11:35	04/22/22 05:50	50

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Matrix: Solid

Lab Sample ID: 890-2210-2

04/22/22 02:45

Client Sample Results

Client: Ensolum Job ID: 890-2210-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: BH01A

Date Collected: 04/19/22 13:10 Date Received: 04/19/22 16:26

Sample Depth: 1

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130			04/21/22 11:35	04/22/22 05:50	50
1,4-Difluorobenzene (Surr)	104		70 - 130			04/21/22 11:35	04/22/22 05:50	50
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	42.0		0.200	mg/Kg			04/22/22 11:18	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1580		50.0	mg/Kg			04/22/22 17:19	1
Method: 8015B NM - Diesel Ran	ige Organics (DI	RO) (GC)						
Method: 8015B NM - Diesel Ran Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 04/21/22 15:22	Analyzed 04/22/22 16:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result 1240	Qualifier *1 *-	50.0	mg/Kg	<u>D</u>	04/21/22 15:22	04/22/22 16:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 1240	Qualifier			<u>D</u>			Dil Fac
	Result 1240	Qualifier *1 *-	50.0	mg/Kg	<u>D</u>	04/21/22 15:22	04/22/22 16:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 1240 241	Qualifier *1 *-	50.0	mg/Kg	<u>D</u>	04/21/22 15:22	04/22/22 16:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 1240 241	Qualifier *1 *- *1 *-	50.0	mg/Kg	<u>D</u>	04/21/22 15:22	04/22/22 16:22	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 1240 241 100	Qualifier *1 *- *1 *-	50.0 50.0 50.0	mg/Kg	<u>D</u>	04/21/22 15:22 04/21/22 15:22 04/21/22 15:22	04/22/22 16:22 04/22/22 16:22 04/22/22 16:22	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 1240 241 100 %Recovery 128	Qualifier *1 *- *1 *-	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared	04/22/22 16:22 04/22/22 16:22 04/22/22 16:22 Analyzed	1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 1240 241 100 %Recovery 128 132	Qualifier *1*- *1*- Qualifier S1+	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared 04/21/22 15:22	04/22/22 16:22 04/22/22 16:22 04/22/22 16:22 Analyzed 04/22/22 16:22	1 1 Dil Fac

4.96

mg/Kg

19.5

Surrogate Summary

Client: Ensolum Job ID: 890-2210-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recov
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-A-1-A MS	Matrix Spike	106	100	
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102	
890-2210-1	BH01	213 S1+	99	
890-2210-2	BH01A	196 S1+	104	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

-			
		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-13949-A-1-E MS	Matrix Spike	96	91
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109
890-2210-1	BH01	120	117
890-2210-2	BH01A	128	132 S1+
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-
LCSD 880-23954/3-A	Lab Control Sample Dup	109	109
MB 880-23954/1-A	Method Blank	120	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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1

Client: Ensolum Job ID: 890-2210-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Analysis Batch: 23883

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23898

ı		IND	1410						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
	Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	
	o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/22 09:3	2 04/21/22 11:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/22 09:3	2 04/21/22 11:41	1

Lab Sample ID: MB 880-23940/5-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23940

Analysis Batch: 23883

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 11	:35 04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11	:35 04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 _ 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID	: Lab Control	Sample Dup
	Dune T	T-4-1/NIA

Prep Type: Total/NA

Prep Batch: 23940

	Бріке	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09617	mg/Kg		96	70 - 130	4	35

Eurofins Carlsbad

QC Sample Results

Job ID: 890-2210-1 Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid Analysis Batch: 23883 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09442 94 70 - 130 35 mg/Kg 5 Ethylbenzene 0.100 0.09448 mg/Kg 94 70 - 130 5 35 0.200 70 - 130 m-Xylene & p-Xylene 0.1923 mg/Kg 96 35 5 o-Xylene 0.100 0.09722 mg/Kg 97 70 - 130

LCSD LCSD

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

Lab Sample ID: 890-2207-A-1-A MS Client Sample ID: Matrix Spike

Analysis Batch: 23883

Matrix: Solid Prep Type: Total/NA

Prep Batch: 23940

MS MS %Rec Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00201 U 0.101 0.1025 mg/Kg 102 70 - 130 Toluene <0.00201 U 0.101 0.09214 91 70 - 130 mg/Kg Ethylbenzene 0.101 0.07746 77 70 - 130 <0.00201 U F2 F1 mg/Kg m-Xylene & p-Xylene <0.00402 UF1 0.202 0.1606 70 - 130 mg/Kg 80 o-Xylene <0.00201 UF1 0.101 0.07856 mg/Kg 78 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2207-A-1-B MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23883

Prep Type: Total/NA Prep Batch: 23940

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.09413		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0994	0.08168		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.03017	F2 F1	mg/Kg		30	70 - 130	88	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1354	F1	mg/Kg		68	70 - 130	17	35
o-Xylene	<0.00201	U F1	0.0994	0.06657	F1	mg/Kg		67	70 - 130	17	35

MSD MSD

Surrogate	76Kecovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-23954/1-A

Matrix: Solid

Analysis Batch: 24009

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

Prep Batch: 23954

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 04/21/22 15:22 04/22/22 11:28 Gasoline Range Organics

(GRO)-C6-C10

Client: Ensolum

Job ID: 890-2210-1

SDG: 03E1558009

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

Lab Sample ID: MB 880-23954/1-A

Project/Site: JRU LEGG BATTERY

Matrix: Solid

Analysis Batch: 24009

Prep Type: Total/NA

Prep Batch: 23954

	IVID	MID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/22 15:22	04/22/22 11:28	1
o-Terphenyl	135	S1+	70 - 130	04/21/22 15:22	04/22/22 11:28	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-23954/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 24009 Prep Batch: 23954

	Зріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	223.2	*-	mg/Kg		22	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	220.8	*_	mg/Kg		22	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	25	S1-	70 - 130
o-Terphenyl	19	S1-	70 - 130

Lab Sample ID: LCSD 880-23954/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 24009

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	904.2	*1	mg/Kg		90	70 - 130	121	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	964.8	*1	mg/Kg		96	70 - 130	126	20
C10-C28)									

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

Lab Sample ID: 880-13949-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 24009

,	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *1 *-	999	1021		mg/Kg		100	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U *1 *-	999	899.6		mg/Kg		90	70 - 130	

C10-C28)

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

Prep Batch: 23954

Prep Batch: 23954

Project/Site: JRU LEGG BATTERY

Job ID: 890-2210-1

SDG: 03E1558009

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

Lab Sample ID: 880-13949-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 24009** Prep Batch: 23954

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U *1 *-	999	1121		mg/Kg		111	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U *1 *-	999	1081		mg/Kg		108	70 - 130	18	20
C10-C28)											

Client: Ensolum

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 114 o-Terphenyl 109 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 04/21/22 23:39

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-23899/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2216-A-7-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	15.4		249	277.2		ma/Ka	_	105	90 - 110	

Lab Sample ID: 890-2216-A-7-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23976

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Analysis Daton. 20070												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	15.4		249	273.5		ma/Ka		104	90 - 110	1	20	

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum
Project/Site: JRU LEGG BATTERY

Job ID: 890-2210-1 SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	8021B	23940
890-2210-2	BH01A	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	5035	
890-2210-2	BH01A	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	Total BTEX	
890-2210-2	BH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	8015NM Prep	
890-2210-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	8015B NM	23954
890-2210-2	BH01A	Total/NA	Solid	8015B NM	23954
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015B NM	23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

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QC Association Summary

Client: Ensolum
Project/Site: JRU LEGG BATTERY

Job ID: 890-2210-1 SDG: 03E1558009

GC Semi VOA

Analysis Batch: 24075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Total/NA	Solid	8015 NM	
890-2210-2	BH01A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Soluble	Solid	DI Leach	
890-2210-2	BH01A	Soluble	Solid	DI Leach	
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2216-A-7-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2216-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2210-1	BH01	Soluble	Solid	300.0	23899
890-2210-2	BH01A	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2216-A-7-C MS	Matrix Spike	Soluble	Solid	300.0	23899
890-2216-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23899

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Date Received: 04/19/22 16:26

Lab Chronicle

Client: Ensolum Job ID: 890-2210-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: BH01 Lab Sample ID: 890-2210-1 Date Collected: 04/19/22 13:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 23940 04/21/22 11:35 MR XEN MID 8021B Total/NA Analysis 50 23883 04/22/22 05:29 MR XEN MID Total/NA Analysis Total BTEX 24039 04/22/22 11:18 ΑJ XEN MID 1 Total/NA 8015 NM 24075 04/22/22 17:19 XEN MID Analysis 1 AJ Total/NA 8015NM Prep 23954 04/21/22 15:22 XEN MID Prep 10.00 g 10 mL DM Total/NA Analysis 8015B NM 24009 04/22/22 16:00 ΑJ XEN MID 5 g Soluble DI Leach 50 mL 23899 04/21/22 09:33 СН XEN MID Leach Soluble Analysis 300.0 23976 04/22/22 02:36 СН XEN MID

Client Sample ID: BH01A Lab Sample ID: 890-2210-2

Date Collected: 04/19/22 13:10 **Matrix: Solid** Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		50			23883	04/22/22 05:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24039	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24075	04/22/22 17:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23954	04/21/22 15:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/22/22 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 02:45	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: 890-2210-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

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 analytes the agency does not of	' '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix		
7 that you would	Prep Method	IVIAUIX	Analyte	
8015 NM	Ртер метноа	Solid	Analyte Total TPH	

Method Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2210-1

SDG: 03E1558009

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B 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
3015NM 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: JRU LEGG BATTERY

Job ID: 890-2210-1

SDG: 03E1558009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-2210-1	BH01	Solid	04/19/22 13:00	04/19/22 16:26	0.5
890-2210-2	BH01A	Solid	04/19/22 13:10	04/19/22 16:26	1

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing Xenco

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Chain of Custody

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

4/22/2022

					- 1		www.xenco.com	m Page v of v
Project Manager:	Kale; Sannings		Bill to:	Bill to: (if different)	Adrican	Baker	Work Order Comments	Comments
	Ensolved Lic		Compa	Company Name:	X OZ	XTO Energy Inc.	Program: UST/PST ☐ PRP ☐ Bı	Brownfields ☐ RRC ☐ Superfund ☐
Address:	705 (1) INKATIEN ARE SUR THE	Alpu Ales	Jule 240 Address:	:5:	3104 1	3104 E Fleen Sheet	State of Project:	
e ZIP:	Milking TX V	40+04	City, St	City, State ZIP:	Carlolad	NM. 88210	Reporting: Level II Level III	PST/UST TRRP Level IV
	683-	503	Email: Kir	K. JEMM: MASG)	ensulum com	OM	Deliverables: EDD AD	ADaPT Other:
Project Name	Di Lega Rathm	TAY.	Turn Around	7		ANALYSIS REQUEST	JEST	Preservative Codes
er:	N3E1558009		Routine Rush	sh Code	. 4			None: NO DI Water: H ₂ O
	孟		Due Date: 2-0	2-Day TAT				Cool: Cool MeOH: Me
Sampler's Name:	7	TAT CASA	્ર	ived by				
PO #:		ţ	the lab, if received by 4:30pm	1				H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	W oN say	Wet Ice:	No				H ₃ PO ₄ : HP
Samples Received Intact:	(es) No T	Thermometer ID:	MW	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Coo 2210 Chair of Chetody	NaHSO 4: NABIS
Cooler Custody Seals:	Yes No (N/)	Correction Factor:		7.0		20177-088		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No N/A	Temperature Reading:	+	٩		92		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:		3,60	1	Pine		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix	Date Sampled Sa	Time Depth	Grab/ # of	37.87 H97	747		Sample Comments
DAROL	5	12	1360 0.5'		X	×		INC. NAPP2204943-884
13HOIA	2	-	1310 1		×	×		(cc. 10809 71001
						1		
				\	1			
				1				
		 	-					
	1	\	H					
			,					
Total 200.7 / 6010	Total 200.7 / 6010 200.8 / 6020:	8RCR.	A 13PPM Texas 11	xas 11 AI S	Sb As Ba Be B Cd	Ca Cr	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn u Pb Mn Mo Ni Se Ag Tl U Hg:1631/245.1/7470 /7471	Sr Tl Sn U V Zn 1.1/7470 /7471
Notice: Signature of this documer of service. Eurofins Xenco will be defined years.	nt and relinquishment of sample. liable only for the cost of sample area of SSC OO will be anolled to	s constitutes a valid page and shall not assum	ourchase order from cl ne any responsibility for harge of \$5 for each s	lent company to Eu y any losses or expe ample submitted to	rofins Xenco, its affiliate enses incurred by the cli	Content of the contraction of the contraction of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for service. Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client it such losses are due to circumstances beyond the control of services. As only for only for the cost of samples and as that en of 55 for each sample submitted to Eurofins Acroc. but not analyzed. These terms will be enforced unless previously negotiated.	ms and conditions yond the control is previously negotiated.	
Relinquished by: (Signature)	anature)	Received by: (Signature	Signature)		Date/Time	Relinquished by: (Signature)	ure) Received by: (Signature)	ure) Date/Time
I WAN II	3	1/10 /0	3	7		1626		
11/11/11		44 541	A	-		4		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2210-1

SDG Number: 03E1558009

List Source: Eurofins Carlsbad

Login Number: 2210 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	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2210-1

SDG Number: 03E1558009

List Source: Eurofins Midland

List So List Number: 2210 List Creater List

List Creation: 04/21/22 11:26 AM

Creator: Rodriguez, Leticia

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

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4/22/2022

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2211-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

Revision: 3

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

Brianna Tel

Authorized for release by: 5/3/2022 8:31:38 AM Brianna Teel, Project Manager (432)704-5440 Brianna.Teel@et.eurofinsus.com

Designee for

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through Total Access **Have a Question?**

..... LINKS



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Released to Imaging: 8/26/2022 1:43:27 PM

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

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

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Laboratory Job ID: 890-2211-1

SDG: 03E1558009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Qualifiers

GC VOA Qualifier

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

GC Semi VOA

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

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

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)

ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC:	Not Calculated

ND	Not Detected at the reporting limit (or MDL or EDL if shown)

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

PQL	Practical Quantitation Limit
DDEO	D

PRES	Presumptive
QC	Quality Control

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Job ID: 890-2211-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2211-1

REVISION

The report being provided is a revision of the original report sent on 4/22/2022. The report (revision 3) is being revised due to Revised report to correct Total TPH Calculation.

Report revision history

The report being provided is a revision of the original report sent on 4/22/2022. The report (revision 3) is being revised due to Revised report to correct Total TPH Calculation.

Revision 2 - 5/2/2022 - Reason - Per client email, requesting re run on sample BH01B for TPH.

Revision 2 - 5/2/2022 - Reason - Per client email, requesting re run on sample BH01B for TPH.

Revision 1 - 4/27/2022 - Reason - Per client email, corrected sample name from BH01B @ 0.5' to BH01B @ 2'.

Receipt

The sample was received on 4/19/2022 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-23954 and analytical batch 880-24009 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23954 and analytical batch 880-24009 recovered outside control limits for the following analytes: <AffectedAnalytes>.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-24405 and analytical batch 880-24563 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-24405 and analytical batch 880-24563 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-2244-A-21-B MS) and (890-2244-A-21-C MSD). Evidence of matrix interferences is not obvious.

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

Case Narrative

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

Job ID: 890-2211-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Job ID: 890-2211-1

Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: BH01B @ 2'

Lab Sample ID: 890-2211-1 Date Collected: 04/19/22 13:20 **Matrix: Solid** Date Received: 04/19/22 16:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.140		0.00202	mg/Kg		04/21/22 11:35	04/22/22 03:47	1
Toluene	0.691		0.0996	mg/Kg		04/21/22 15:18	04/22/22 14:27	50
Ethylbenzene	0.313		0.00202	mg/Kg		04/21/22 11:35	04/22/22 03:47	1
m-Xylene & p-Xylene	5.83		0.199	mg/Kg		04/21/22 15:18	04/22/22 14:27	50
o-Xylene	1.56		0.0996	mg/Kg		04/21/22 15:18	04/22/22 14:27	50
Xylenes, Total	7.39		0.199	mg/Kg		04/21/22 15:18	04/22/22 14:27	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	253	S1+	70 - 130			04/21/22 11:35	04/22/22 03:47	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			04/21/22 11:35	04/22/22 03:47	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.53		0.199	mg/Kg			04/22/22 11:18	1
Method: 8015 NM - Diesel Rai Analyte		S (DRO) (G Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	671		50.0	mg/Kg			04/22/22 17:22	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	213	*_	50.0	mg/Kg		04/28/22 11:23	05/01/22 03:43	1
Diesel Range Organics (Over C10-C28)	458		50.0	mg/Kg		04/28/22 11:23	05/01/22 03:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 11:23	05/01/22 03:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/28/22 11:23	05/01/22 03:43	1
o-Terphenyl	89		70 - 130			04/28/22 11:23	05/01/22 03:43	1
Method: 300.0 - Anions, Ion C	hromatogra	iphy - Solu	ıble					
Method: 300.0 - Anions, Ion C Analyte	_	phy - Solu Qualifier	RL 5.00	Unit	D	Prepared	Analyzed 04/22/22 03:11	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-A-1-A MS	Matrix Spike	106	100	
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102	
890-2211-1	BH01B @ 2'	253 S1+	68 S1-	
890-2216-A-1-E MS	Matrix Spike	100	105	
890-2216-A-1-F MSD	Matrix Spike Duplicate	99	106	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCS 880-23953/1-A	Lab Control Sample	95	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
LCSD 880-23953/2-A	Lab Control Sample Dup	96	100	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	
MB 880-23953/5-A	Method Blank	98	103	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percen	t Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-13949-A-1-E MS	Matrix Spike	96	91	
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109	
890-2211-1	BH01B @ 2'	91	89	
890-2244-A-21-B MS	Matrix Spike	82	62 S1-	
390-2244-A-21-C MSD	Matrix Spike Duplicate	73	57 S1-	
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-	
_CS 880-24405/2-A	Lab Control Sample	91	79	
LCSD 880-23954/3-A	Lab Control Sample Dup	109	109	
LCSD 880-24405/3-A	Lab Control Sample Dup	104	100	
MB 880-23954/1-A	Method Blank	120	135 S1+	
MB 880-24405/1-A	Method Blank	89	87	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Matrix: Solid

Analysis Batch: 23883

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 23898

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/22 09:32	04/21/22 11:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/22 09:32 (04/21/22 11:41	1

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

Prep Batch: 23940

MR MR

Analysis Batch: 23883

Matrix: Solid

Lab Sample ID: MB 880-23940/5-A

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	04/21/22 11:35	04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91	70 - 130	04/21/22 11:35	04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Analysis Batch: 23883

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

Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid				Prep Ty	pe: Tot	al/NA			
Analysis Batch: 23883							Prep E	Batch: 2	23940
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09617		mg/Kg		96	70 - 130	4	35

QC Sample Results

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.09442 mg/Kg 94 70 - 130 5 35 Ethylbenzene 0.100 0.09448 mg/Kg 94 70 - 130 5 35 m-Xylene & p-Xylene 0.200 0.1923 mg/Kg 96 70 - 130 5 35 o-Xylene 0.100 0.09722 mg/Kg 97 70 - 130 5 35

LCSD LCSD

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

Lab Sample ID: 890-2207-A-1-A MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 23883

Prep Type: Total/NA

Prep Batch: 23940

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00201	U	0.101	0.1025		mg/Kg		102	70 - 130	
<0.00201	U	0.101	0.09214		mg/Kg		91	70 - 130	
<0.00201	U F2 F1	0.101	0.07746		mg/Kg		77	70 - 130	
<0.00402	U F1	0.202	0.1606		mg/Kg		80	70 - 130	
<0.00201	U F1	0.101	0.07856		mg/Kg		78	70 - 130	
	Result <0.00201 <0.00201 <0.00201 <0.00402	Sample Sample	Result Qualifier Added <0.00201	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00201

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2207-A-1-B MSD

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23940

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.09413		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0994	0.08168		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.03017	F2 F1	mg/Kg		30	70 - 130	88	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1354	F1	mg/Kg		68	70 - 130	17	35
o-Xylene	<0.00201	U F1	0.0994	0.06657	F1	mg/Kg		67	70 - 130	17	35

MSD MSD

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-23953/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23953

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	04/21/22 15:18	04/22/22 13:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 13:37	1

QC Sample Results

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: MB 880-23953/5-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23953

•	MB	MB					•	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 15:18	04/22/22 13:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 15:18	04/22/22 13:37	1

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	04/21/22 15:18	04/22/22 13:37	1
1,4-Difluorobenzene (Surr)	103	70 - 130	04/21/22 15:18	04/22/22 13:37	1

Lab Sample ID: LCS 880-23953/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 23987 Prep Batch: 23953 Chiles

	Spike	LUS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	 0.100	0.08351		mg/Kg		84	70 - 130	
Toluene	0.100	0.09267		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09526		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1903		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.09413		mg/Kg		94	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-23953/2-A

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23953

Spike LCSD LCSD %Rec **RPD** Result Qualifier Analyte Added Unit D %Rec Limits RPD Limit Benzene 0.100 0.08219 82 70 - 130 2 mg/Kg 35 Toluene 0.100 0.09657 mg/Kg 97 70 - 130 35 Ethylbenzene 0.100 0.09862 mg/Kg 99 70 - 130 35 35 m-Xylene & p-Xylene 0.200 0.1984 mg/Kg 99 70 - 130 4 o-Xylene 0.100 0.09882 mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2216-A-1-E MS

Matrix: Solid

Analysis Batch: 23987

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

Prep Batch: 23953

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00201	U	0.100	0.08703		mg/Kg		87	70 - 130	
<0.00201	U	0.100	0.08753		mg/Kg		87	70 - 130	
<0.00201	U	0.100	0.07868		mg/Kg		79	70 - 130	
<0.00402	U	0.200	0.1546		mg/Kg		77	70 - 130	
<0.00201	U	0.100	0.07694		mg/Kg		77	70 - 130	
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402	Sample Sample	Result Qualifier Added <0.00201	Result Qualifier Added Result <0.00201	Result Qualifier Added Result Qualifier <0.00201	Result Qualifier Added Result Qualifier Unit <0.00201	Result Qualifier Added Result Qualifier Unit D <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec <0.00201	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00201

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

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

MS MS

Lab Sample ID: 890-2216-A-1-E MS

Matrix: Solid

Analysis Batch: 23987

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23953

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-2216-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 23987

Prep Type: Total/NA

Prep Batch: 23953

Analysis Daton. 20001									I ICP L	outon. z	-0000
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.08359		mg/Kg		84	70 - 130	4	35
Toluene	< 0.00201	U	0.0996	0.08837		mg/Kg		89	70 - 130	1	35
Ethylbenzene	< 0.00201	U	0.0996	0.08567		mg/Kg		86	70 - 130	9	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1705		mg/Kg		86	70 - 130	10	35
o-Xylene	< 0.00201	U	0.0996	0.08421		mg/Kg		85	70 - 130	9	35

MSD MSD

MD MD

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

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

Lab Sample ID: MB 880-23954/1-A **Matrix: Solid**

Analysis Batch: 24009

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

Prep Batch: 23954

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/22 15:22	04/22/22 11:28	1
o-Terphenyl	135	S1+	70 - 130	04/21/22 15:22	04/22/22 11:28	1

Lab Sample ID: LCS 880-23954/2-A

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 23954

%Rec

•	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	223.2	*_	mg/Kg		22	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	220.8	*-	mg/Kg		22	70 - 130
C10-C28)							

	LUS		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	25	S1-	70 - 130
o-Terphenyl	19	S1-	70 - 130

Client: Ensolum Project/Site: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23954/3-A

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23954

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 904.2 *1 Gasoline Range Organics 1000 mg/Kg 90 70 - 130 121 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 964.8 *1 96 70 - 130 126 mg/Kg 20

C10-C28)

LCSD LCSD

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23954

Lab Sample ID: 880-13949-A-1-E MS **Matrix: Solid Analysis Batch: 24009**

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D %Rec Limits Analyte Unit Gasoline Range Organics <49.9 U *1 *-999 1021 100 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *1 *-999 899.6 mg/Kg 90 70 - 130

C10-C28)

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

Lab Sample ID: 880-13949-A-1-F MSD

Matrix: Solid

Analysis Batch: 24009

Lab Sample ID: MB 880-24405/1-A

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 23954

RPD Spike MSD MSD %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.9 U *1 *-999 1121 20 111 70 - 130 9 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *1 *-999 1081 mg/Kg 108 70 - 130 18 20

C10-C28)

Matrix: Solid

Analysis Batch: 24563

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	114	70 - 130
o-Terphenyl	109	70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24405

MB MB Result Qualifier Analyte RL Unit Analyzed Dil Fac Prepared 04/28/22 11:23 04/30/22 21:38 Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 <50.0 U 50.0 04/28/22 11:23 04/30/22 21:38 Diesel Range Organics (Over mg/Kg C10-C28) 04/28/22 11:23 04/30/22 21:38 50.0 OII Range Organics (Over C28-C36) <50.0 U mg/Kg

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

MB MB

Lab Sample ID: MB 880-24405/1-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24405

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	04/28/22 11:23	04/30/22 21:38	1
o-Terphenyl	87		70 - 130	04/28/22 11:23	04/30/22 21:38	1

Lab Sample ID: LCS 880-24405/2-A

Analysis Batch: 24563

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

Prep Batch: 24405

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 687.7 mg/Kg 69 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 839.1 mg/Kg 84 70 - 130 C10-C28)

Spike

Added

1000

1000

LCSD LCSD

598.1

903.2

Result Qualifier

Unit

mg/Kg

mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 91 70 - 130 70 - 130 o-Terphenyl 79

Lab Sample ID: LCSD 880-24405/3-A

Matrix: Solid

(GRO)-C6-C10

Analyte

Analysis Batch: 24563

Gasoline Range Organics

Diesel Range Organics (Over

Client Sample ID: Lab Control Sample Dup

D %Rec

60

90

Prep Type: Total/NA Prep Batch: 24405

%Rec **RPD** Limits **RPD** Limit 70 - 130 14 20

C10-C28) LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: 890-2244-A-21-B MS

Matrix: Solid

Analysis Batch: 24563

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

70 - 130

Prep Batch: 24405

%Rec Limits

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit %Rec <49.9 U*-999 771.3 77 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 773.5 mg/Kg 77 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	62	S1-	70 - 130

Eurofins Carlsbad

20

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

mg/Kg

711.8

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

Sample Sample

<49.9 U*-

<49.9 UF1

Result Qualifier

Lab Sample ID: 890-2244-A-21-C MSD **Client Sample ID: Matrix Spike Duplicate**

Spike

Added

999

999

Matrix: Solid

Analysis Batch: 24563

Gasoline Range Organics

					Prep Type: Total/NA					
					Prep Batch: 24405					
MSD	MSD				%Rec		RPD			
Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
880.9		mg/Kg		88	70 - 130	13	20			

71

70 - 130

8

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Analyte

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	57	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/22 23:39	1

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble Matrix: Solid**

Analysis Batch: 23976

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-23899/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2216-A-7-C MS **Client Sample ID: Matrix Spike Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	15.4		249	277 2		ma/Ka		105	90 - 110	

Lab Sample ID: 890-2216-A-7-D MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	15.4		249	273.5		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Ensolum Project/Site: JRU LEGG BATTERY Job ID: 890-2211-1 SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 23953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	5035	
MB 880-23953/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23953/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23953/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2216-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2216-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 23987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	8021B	23953
MB 880-23953/5-A	Method Blank	Total/NA	Solid	8021B	23953
LCS 880-23953/1-A	Lab Control Sample	Total/NA	Solid	8021B	23953
LCSD 880-23953/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23953
890-2216-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	23953
890-2216-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23953

Analysis Batch: 24034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

GC Semi VOA (Continued)

Prep Batch: 23954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24009

Lab Sample ID MB 880-23954/1-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

Analysis Batch: 24076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	8015 NM	

Prep Batch: 24405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	8015NM Prep	
MB 880-24405/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24405/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2244-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2244-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Total/NA	Solid	8015B NM	24405
MB 880-24405/1-A	Method Blank	Total/NA	Solid	8015B NM	24405
LCS 880-24405/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24405
LCSD 880-24405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24405
890-2244-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	24405
890-2244-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24405

HPLC/IC

Leach Batch: 23899

Lab Sample ID 890-2211-1	Client Sample ID BH01B @ 2'	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2216-A-7-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2216-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2211-1	BH01B @ 2'	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2216-A-7-C MS	Matrix Spike	Soluble	Solid	300.0	23899
890-2216-A-7-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23899

Lab Chronicle

Client: Ensolum Job ID: 890-2211-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: BH01B @ 2'

Date Received: 04/19/22 16:26

Lab Sample ID: 890-2211-1 Date Collected: 04/19/22 13:20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	23953	04/21/22 15:18	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	23987	04/22/22 14:27	MR	XEN MID
Total/NA	Prep	5035			4.96 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 03:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24034	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24076	04/22/22 17:22	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 03:43	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 03:11	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: 890-2211-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Laboratory: Eurofins Midland

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

Authority	Р	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not o		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

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: JRU LEGG BATTERY

Job ID: 890-2211-1

SDG: 03E1558009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2211-1	BH01B @ 2'	Solid	04/19/22 13:20	04/19/22 16:26	2

Date/Time

Received by: (Signature)

Chain of Custody

Environment Testing

💸 eurofins

Xenco

Work Order No:

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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

Project Manager:	Kale,	Lennings		Bill to: (if different)	erent)	4	NUN	Adrium Broker				Work Orc	Work Order Comments	ts	
Company Name:	Ensolum	JT .		Company Name:	ime:		X OXX	XXD Energy	The	Pro Pro	Program: UST/	UST/PST PRP Brownfields RRC	Brownfields	□ RRC□	Superfund
	ADS WILLIAMS	4) Wadley Ave Su	Nt 240	Address:		311)4 E	3104 E Brien	1 Street		State of Project:				
City, State ZIP:	Midlend, TX	79705		City, State ZIP:	ġ.	3	15 bud	Calstad, NM 38220	38170	Rep	orting: Level	Reporting: Level III Level III PST/UST TRRP Level IV	DST/UST	TRRP	LevelIV
Phone:	87-683-1203	75	Email:	14 jennings	Minds 1	Sens	Jum	Bensolum, com		Deli	Deliverables:	EDD	ADaPT 🗌	Other:	
Project Name:	JRU Ley Broken	Buttery	Turn	Turn Around)				ANALYSI	ANALYSIS REQUEST			P	Preservative Codes	Codes
Project Number:	O261558009	1 609	Routine	MRush	Pres. Code								None: NO		DI Water: H ₂ O
Project Location:	Eddy		Due Date:	204Y TAT	4		_						Cool: Cool	-	MeOH: Me
Sampler's Name:	Acris Ca	T OHED I	AT starts the	TAT starts the day received by	^		_		_	_	-	-	HCL: HC		HNO 3: HN
PO#:			the lab, if rece	the lab, if received by 4:30pm			-						H ₂ SO 4: H ₂		NaOH: Na
SAMPLE RECEIPT	Temp Blank:	ONO	Wet Ice:	Wes No	reter								H ₃ PO ₄: HP	HP	
Samples Received Intact:	Ve) No	Thermometer ID:		NMO37									NaHSO	NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No MYA	Correction Factor:	tor:	7,0,			_				I III III III III III III III III III		Na ₂ S ₂ O	Na 25 203: NaSO 3	
Sample Custody Seals:	Yes No N/	Temperature Reading:	leading:	3.8			_	51	890-27	890-2211 Chain of Custody	nelony		Zn Acet	Zn Acetate+NaOH: Zn	Zu
Total Containers:)	Corrected Temperature:	perature:	3.6	T	X	+	ر ام	_	_	_		NaOH+	NaOH+Ascorbic Acid: SAPC	id: SAPC
Sample Identification	tion Matrix	Date Sampled	Time	Depth Go	Grab/ # of Comp Cont	उत्त	CHIO TH	ONA					Sa	Sample Comments	ments
PHO! R	5	04/4/22	1320	0.5'	-	×	X						TIK	MAPPZLO	JV. MAP 2204943884
							1						3	CC:10309 7100	1801
					1										
				1											
			\												
		1													
		1	ر										-		
													-		
							-			+			+		
					\dashv		-								
Total 200.7 / 6010	200.8 / 6020:		RA 13PF	M Texas 1	1 AIS	As Ba	Be B (d Ca Ci	Co Cu Fe	ob Mg Mn	Mo Ni K S	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	a Sr Tl Sn	U V Zn	
Mathodic) and Matalia to he analyzed	Motal(c) to be an	De7Ve	TCLP/S	PLP 6010	8RCRA	Sb As E	a Be Cc	07 27	TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag II U	lo NI Se Ag	0 =	Hg: 1631/2	Hg: 1631 / 245.1 / 74/0 / 74/1	/4//	

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

Refinquished by: (Signature)	1626	4	9
Date/Time	4.19.33		
Received by: (Signature)	(W (M)	1	
Relinquished by: (Signature)	Mr man		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2211-1

SDG Number: 03E1558009

Login Number: 2211 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2211-1 SDG Number: 03E1558009

Login Number: 2211 **List Source: Eurofins Midland** List Creation: 04/21/22 11:26 AM List Number: 2

Creator: Rodriguez, Leticia

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

Page 23 of 23 5/3/2022 (Rev. 3)

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2212-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MRAMER

Authorized for release by: 4/22/2022 6:58:17 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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Released to Imaging: 8/26/2022 1:43:27 PM

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

Project/Site: JRU LEGG BATTERY

Laboratory Job ID: 890-2212-1

SDG: 03E1558009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2212-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Qualifiers

00		$\overline{}$	A .
GU	. v	U.	А

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

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

RER

RPD TEF

TEQ TNTC

RL

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

Eurofins Carlsbad

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Case Narrative

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2212-1 SDG: 03E1558009

Job ID: 890-2212-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2212-1

Receipt

The sample was received on 4/19/2022 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23899 and analytical batch 880-23976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-2212-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS01 Lab Sample ID: 890-2212-1

Date Collected: 04/19/22 13:35 Date Received: 04/19/22 16:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
Toluene	0.00484		0.00200	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
m-Xylene & p-Xylene	0.00490		0.00400	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
Xylenes, Total	0.00490		0.00400	mg/Kg		04/21/22 11:35	04/22/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/21/22 11:35	04/22/22 04:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130			04/21/22 11:35	04/22/22 04:07	1
- Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00974		0.00400	mg/Kg			04/22/22 11:18	1
- Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			04/21/22 15:22	04/22/22 19:03	
o-Terphenyl	118		70 - 130			04/21/22 15:22	04/22/22 19:03	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2212-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-A-1-A MS	Matrix Spike	106	100	
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102	
890-2212-1	SS01	108	93	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-13949-A-1-E MS	Matrix Spike	96	91	
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109	
890-2212-1	SS01	110	118	
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-	
_CSD 880-23954/3-A	Lab Control Sample Dup	109	109	
MB 880-23954/1-A	Method Blank	120	135 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-2212-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Analysis Batch: 23883

Matrix: Solid

MR MR

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

ep Type: Total/NA

Prep Batch: 23898

	1410	1410						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21.	1/22 09:32	04/21/22 11:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21.	1/22 09:32	04/21/22 11:41	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23940

Analysis Batch: 23883

Lab Sample ID: MB 880-23940/5-A

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Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Toluene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethylbenzene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-Xylene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xylenes, Total	<0.00400 U	J	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 11	:35 04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11	:35 04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 23883

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid								Prep Type: Total/NA		
Analysis Batch: 23883	Prep							Batch: 23940		
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09617		mg/Kg		96	70 - 130	4	35	

QC Sample Results

Client: Ensolum Job ID: 890-2212-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23940/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 23883** Prep Batch: 23940 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09442 94 70 - 130 35 mg/Kg 5 Ethylbenzene 0.100 0.09448 mg/Kg 94 70 - 130 5 35 0.200 0.1923 70 - 130 m-Xylene & p-Xylene mg/Kg 96 35 5 o-Xylene 0.100 0.09722 mg/Kg 97 70 - 130 5 35

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

Lab Sample ID: 890-2207-A-1-A MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 23883 Prep Batch: 23940

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.1025		mg/Kg		102	70 - 130	
Toluene	<0.00201	U	0.101	0.09214		mg/Kg		91	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.101	0.07746		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1606		mg/Kg		80	70 - 130	
o-Xylene	<0.00201	U F1	0.101	0.07856		mg/Kg		78	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2207-A-1-B MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 23883

o-Xylene

Prep Batch: 23940 %Rec Spike MSD MSD RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U 0.0994 0.09413 mg/Kg 95 70 - 130 9 35 Toluene <0.00201 U 0.0994 0.08168 mg/Kg 82 70 - 130 12 35 Ethylbenzene <0.00201 U F2 F1 0.0994 0.03017 F2 F1 mg/Kg 30 70 - 130 88 35 0.199 m-Xylene & p-Xylene <0.00402 UF1 0.1354 F1 68 70 - 130 35 mg/Kg 17

0.06657 F1

mg/Kg

0.0994

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

<0.00201 UF1

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

Lab Sample ID: MB 880-23954/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 24009** Prep Batch: 23954

мв мв Result Qualifier RL Unit Prepared Analyzed

Analyte <50.0 U 50.0 mg/Kg 04/21/22 15:22 04/22/22 11:28 Gasoline Range Organics (GRO)-C6-C10

Eurofins Carlsbad

70 - 130

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2212-1

SDG: 03E1558009

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

Lab Sample ID: MB 880-23954/1-A

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23954

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Over	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
ver C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
	s (Over	s (Over <50.0	•	(Over <50.0 U 50.0	(Over <50.0 U 50.0 mg/Kg	(Over <50.0 U 50.0 mg/Kg	s (Over <50.0 U 50.0 mg/Kg 04/21/22 15:22	G (Over <50.0 U 50.0 mg/Kg 04/21/22 15:22 04/22/22 11:28

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	04/21/22 15:22	04/22/22 11:28	1
o-Terphenyl	135 S1+	70 - 130	04/21/22 15:22	04/22/22 11:28	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 24009

Lab Sample ID: LCS 880-23954/2-A

Prep Type: Total/NA

Prep Batch: 23954

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	223.2	*_	mg/Kg		22	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	220.8	*_	mg/Kg		22	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 25 S1o-Terphenyl 19 S1-70 - 130

Lab Sample ID: LCSD 880-23954/3-A

Matrix: Solid

Analysis Batch: 24009

Prep Type: Total/NA

Prep Batch: 23954

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	904.2	*1	mg/Kg		90	70 - 130	121	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	964.8	*1	mg/Kg		96	70 - 130	126	20
C10-C28)									

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

Lab Sample ID: 880-13949-A-1-E MS

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23954

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 *-	999	1021		mg/Kg		100	70 - 130	
Diesel Range Organics (Over	<49.9	U *1 *-	999	899.6		mg/Kg		90	70 - 130	

C10-C28)

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

QC Sample Results

Job ID: 890-2212-1 Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: 880-13949-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 24009** Prep Batch: 23954

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U *1 *-	999	1121		mg/Kg		111	70 - 130	9	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U *1 *-	999	1081		mg/Kg		108	70 - 130	18	20	
040,000)												

C10-C28)

o-Terphenyl

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 1-Chlorooctane 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A Client Sample ID: Method Blank

70 - 130

Matrix: Solid

Analysis Batch: 23976

MB MB

109

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 04/21/22 23:39

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 256.0 102 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-23899/3-A

Matrix: Solid

Analysis Batch: 23976

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 255.7 102 90 - 110 mg/Kg 0

Lab Sample ID: 890-2212-1 MS

Matrix: Solid

Analysis Batch: 23976

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits 5.18 F1 Chloride 250 287.1 F1 113 90 - 110 mg/Kg

Lab Sample ID: 890-2212-1 MSD

Released to Imaging: 8/26/2022 1:43:27 PM

Matrix: Solid

Analysis Batch: 23976

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Limit Unit 5.18 F1 250 272.1 Chloride 107 90 - 110 mg/Kg 5

Eurofins Carlsbad

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SS01

Client Sample ID: SS01

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Lab Control Sample Dup

QC Association Summary

Client: Ensolum Job ID: 890-2212-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Total/NA	Solid	8015B NM	23954
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015B NM	23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

HPLC/IC

Leach Batch: 23899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Soluble	Solid	DI Leach	
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: JRU LEGG BATTERY
Job ID: 890-2212-1
SDG: 03E1558009

HPLC/IC (Continued)

Leach Batch: 23899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2212-1 MS	SS01	Soluble	Solid	DI Leach	
890-2212-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2212-1	SS01	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2212-1 MS	SS01	Soluble	Solid	300.0	23899
890-2212-1 MSD	SS01	Soluble	Solid	300.0	23899

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Lab Chronicle

Client: Ensolum Job ID: 890-2212-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS01 Lab Sample ID: 890-2212-1

Matrix: Solid

Date Collected: 04/19/22 13:35 Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 04:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24035	04/22/22 11:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23954	04/21/22 15:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/22/22 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 00:05	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2212-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report, bu	t the laboratory is not certifie	ed by the governing authority. This list ma	v include analytes for v	
the agency does not of	fer certification.			,	
the agency does not of			A 14	,	
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	, , , , , , , , , , , , , , , , , , ,	

Method Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2212-1

SDG: 03E1558009

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
015 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
I 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: JRU LEGG BATTERY

Job ID: 890-2212-1

SDG: 03E1558009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2212-1	SS01	Solid	04/19/22 13:35	04/19/22 16:26	0.5

Work Order No:

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

Environment Testing

🛟 eurofins

Xenco

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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

Chain of Custody

Revised Date 08/25/2020 Rev 2020.2

Work Order Comments	Brownfields ☐ RRC ☐ Superfund ☐		PST/UST TRRP Level IV	ADaPT Other:	Preservative Codes	None: NO DI Water: H ₂ O	-	HCL: HC HNO 3: HN H ₂ SO 4: H ₂ NaOH: Na	H₃PO 4: HP	NaHSO 4: NABIS	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments	TNC: NAPP2204943884	(C. 10804 71001					Sr TI Sp II V Zn	170 / 74		ture) Date/Time	
Work Order Co	Program: UST/PST PRP	State of Project:	Reporting: Level II Level III	Deliverables: EDD A	NEST							890-2212 Chain of Custody	- - -								An Mo Ni K So An SiO, Na Sr TI	4	erms and conditions beyond the control less previously negotiated.	iture) Received by: (Signature)	
Adrian Baler	XID Energy Inc.	3104 E Aren Steet	Carlshal, NM 88770	ensolum, com	ANALYSIS REQUEST				(_	12			ŧ	947	×						IN OW WA WA GET IN A STATE OF THE STATE OF T	As Ba Be B Cd Cr Co Cu Pe PD Mig Mill Mo I As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	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 service. Eurofins Xenco, will be about the cost of samples and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Date/Time Relinquished by: (Ṣignature)	4.19.32 1626
Bill to: (if different)	Company Name:	-		Kiennings A	n Around	Rush Code	2 Day TAT	day received by lived by 4:30pm	Ves No	TIMIN JOST	1.	ع بر	3.6	Depth Grab/ # of	0.5		1				ODCOM 1200M TOXAC11 AI Ch	A 13PPM 1exas II Al 3D As Ba be b TCLP/SPLP6010: 8RCRA Sb As Ba Be	rder from client company to Eurofin xonsibility for any losses or expense 5 for each sample submitted to Eur	re)	d·h
Sermings	1 5	1 (1100) Pu Due Just 240	TX 70	817-683-7503 Email:	an Bettern Turn	6/55 2004 J Routine	Due Date:	Casks TAT starts the the lab, if rece	slank: es No Wet Ice:	No Thermometer ID:	M/A Correction Factor:	N/A Temperature Reading:	Corrected Temperature:	Matrix Sampled Sampled	5 n4 habi 1335	>		4	7			5020: BRCKA 13P be analyzed TCLP/!	tent of samples constitutes a valid purchase or cost of samples and shall not assume any resp the applied to each project and a charge of \$	Peceived by: (Signature	((we Cut
Project Manager: Kgle!		2	e ZIP:		Project Name: TRU Legal	O2,		Sampler's Name: Alecis	SAMPLE RECEIPT Temp Blank:	Samples Received Intact:	Cooler Custody Seals: Yes No	Sample Custody Seals: Yes No	Total Containers:	Sample Identification	4561							Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	itice: Signature of this document and relinquishm rervice. Eurofins Xenco will be liable only for the surofins Xenco. A minimum charge of \$85.00 will surofins Xenco.	Relinquished by: (Signature)	en ann

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2212-1 SDG Number: 03E1558009

List Source: Eurofins Carlsbad

Login Number: 2212 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 <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2212-1 SDG Number: 03E1558009

Login Number: 2212
List Source: Eurofins Midland
List Number: 2
List Creation: 04/21/22 11:26 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2213-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

Revision: 1

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MRAMER

Authorized for release by: 4/27/2022 1:03:21 PM

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

.....LINKS

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www.eurofinsus.com/Env

Released to Imaging: 8/26/2022 1:43:27 PM

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
Project/Site: JRU LEGG BATTERY
Laboratory Job ID: 890-2213-1
SDG: 03E1558009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Qualifiers

GC VOA

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

MS/MSD RPD exceeds control limits F2

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.

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

HPLC/IC

S1-

Qualifier **Qualifier Description**

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

Glossary

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Job ID: 890-2213-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Job ID: 890-2213-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2213-1

REVISION

The report being provided is a revision of the original report sent on 4/22/2022. The report (revision 1) is being revised due to Per client email, TOTAL TPH missing on report..

Report revision history

Receipt

The sample was received on 4/19/2022 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-23954 and analytical batch 880-24009 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23954 and analytical batch 880-24009 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23899 and analytical batch 880-23976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS02 Lab Sample ID: 890-2213-1

Date Collected: 04/19/22 13:40 **Matrix: Solid** Date Received: 04/19/22 16:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.0127		0.00199	mg/Kg		04/21/22 11:35	04/22/22 04:28	
Toluene	0.00342		0.00199	mg/Kg		04/21/22 11:35	04/22/22 04:28	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/22/22 04:28	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/22/22 04:28	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/22/22 04:28	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/22/22 04:28	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			04/21/22 11:35	04/22/22 04:28	
1,4-Difluorobenzene (Surr)	102		70 - 130			04/21/22 11:35	04/22/22 04:28	
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0161		0.00398	mg/Kg			04/22/22 11:18	
	-		SC)					
<u> </u>		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
<u> </u>	Result <50.0	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/22/22 19:48	Dil Fa
Total TPH	<50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fa
Total TPH Method: 8015B NM - Diesel R	<50.0	Qualifier U	RL 50.0		<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	<50.0 ange Organ Result	Qualifier U	RL 50.0	mg/Kg	=	Prepared	04/22/22 19:48	
Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 cange Organ Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0	mg/Kg	=	Prepared 04/21/22 15:22	04/22/22 19:48 Analyzed	
Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 cange Organ Result <50.0	Qualifier U ics (DRO) Qualifier U *1 *- U *1 *-	(GC) RL 50.0	mg/Kg Unit mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22	04/22/22 19:48 Analyzed 04/22/22 19:25	
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 cange Organ Result <50.0 <50.0	Qualifier U ics (DRO) Qualifier U *1 *- U *1 *-	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22	04/22/22 19:48 Analyzed 04/22/22 19:25 04/22/22 19:25	Dil Fa
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 cange Organ Result <50.0 <50.0 <50.0	Qualifier U ics (DRO) Qualifier U *1 *- U *1 *-	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared	04/22/22 19:48 Analyzed 04/22/22 19:25 04/22/22 19:25 04/22/22 19:25	Dil Fa
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 cange Organ Result <50.0 <50.0 <50.0 %Recovery	Qualifier U ics (DRO) Qualifier U *1 *- U *1 *-	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared 04/21/22 15:22	04/22/22 19:48 Analyzed 04/22/22 19:25 04/22/22 19:25 04/22/22 19:25 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion C	<50.0 cange Organ Result <50.0 <50.0 <50.0 %Recovery 97 106	Qualifier U CS (DRO) Qualifier U *1 *- U *1 *- U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared 04/21/22 15:22	04/22/22 19:48 Analyzed 04/22/22 19:25 04/22/22 19:25 Analyzed 04/22/22 19:25	Dil Fa
Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 cange Organ Result <50.0 <50.0 <50.0 %Recovery 97 106 Chromatogra	Qualifier U CS (DRO) Qualifier U *1 *- U *1 *- U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 04/21/22 15:22 04/21/22 15:22 04/21/22 15:22 Prepared 04/21/22 15:22	04/22/22 19:48 Analyzed 04/22/22 19:25 04/22/22 19:25 Analyzed 04/22/22 19:25	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-2213-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB1	DFBZ1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
890-2207-A-1-A MS	Matrix Spike	106	100						
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102						
890-2213-1	SS02	104	102						
LCS 880-23940/1-A	Lab Control Sample	106	103						
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101						
MB 880-23898/5-A	Method Blank	101	97						
MB 880-23940/5-A	Method Blank	99	91						

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

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

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
880-13949-A-1-E MS	Matrix Spike	96	91						
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109						
890-2213-1	SS02	97	106						
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-						
LCSD 880-23954/3-A	Lab Control Sample Dup	109	109						
MB 880-23954/1-A	Method Blank	120	135 S1+						
Surrogate Legend									

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23898

	MB MB	3				
Analyte	Result Qu	alifier RL	Unit	D Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	0.00200	mg/Kg	04/21/22 09:32	04/21/22 11:41	1
Toluene	<0.00200 U	0.00200	mg/Kg	04/21/22 09:32	04/21/22 11:41	•
Ethylbenzene	<0.00200 U	0.00200	mg/Kg	04/21/22 09:32	04/21/22 11:41	•
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg	04/21/22 09:32	04/21/22 11:41	
o-Xylene	<0.00200 U	0.00200	mg/Kg	04/21/22 09:32	04/21/22 11:41	1
Xylenes, Total	<0.00400 U	0.00400	mg/Kg	04/21/22 09:32	04/21/22 11:41	•

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/21/22 09:32	04/21/22 11:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/22 09:32	04/21/22 11:41	1

Lab Sample ID: MB 880-23940/5-A

Matrix: Solid

Analysis Batch: 23883

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

Prep Batch: 23940

		MB	MB						
Ana	ılyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ben	zene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Tolu	ene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethy	ylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-X	ylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-X	ylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xvle	enes Total	< 0.00400	U	0.00400	ma/Ka		04/21/22 11:35	04/21/22 22:17	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 11:35	04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11:35	04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 23883							Prep E	Batch: 2	23940
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09617		mg/Kg		96	70 - 130	4	35

Eurofins Carlsbad

QC Sample Results

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.09442 mg/Kg 94 70 - 130 5 35 Ethylbenzene 0.100 0.09448 mg/Kg 94 70 - 1305 35 0.200 0.1923 mg/Kg 96 70 - 130 5 35 m-Xylene & p-Xylene 0.100 97 5 35 o-Xylene 0.09722 mg/Kg 70 - 130

LCSD LCSD

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

Lab Sample ID: 890-2207-A-1-A MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 23883

Prep Type: Total/NA

Prep Batch: 23940

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier D %Rec Limits Unit Benzene <0.00201 U 0.101 0.1025 102 70 - 130 mg/Kg Toluene <0.00201 U 0.101 0.09214 mg/Kg 91 70 - 130 Ethylbenzene <0.00201 U F2 F1 0.101 0.07746 mg/Kg 77 70 - 130 m-Xylene & p-Xylene <0.00402 U F1 0.202 80 0.1606 mg/Kg 70 - 130 o-Xylene <0.00201 UF1 0.101 0.07856 mg/Kg 78 70 - 130

MS MS

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2207-A-1-B MSD

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23940

7 many one Datem 20000											
_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.09413		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0994	0.08168		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.03017	F2 F1	mg/Kg		30	70 - 130	88	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1354	F1	mg/Kg		68	70 - 130	17	35
o-Xylene	<0.00201	U F1	0.0994	0.06657	F1	mg/Kg		67	70 - 130	17	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-23954/1-A

Matrix: Solid

Analysis Batch: 24009

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

Prep Batch: 23954

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/21/22 15:22 04/22/22 11:28 (GRO)-C6-C10

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2213-1

SDG: 03E1558009

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

Lab Sample ID: MB 880-23954/1-A

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 23954

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
	1-Chlorooctane	120		70 - 130	04/21/22 15:22 04/22/22 11:28	1
Į	o-Terphenyl	135	S1+	70 - 130	04/21/22 15:22 04/22/22 11:28	1

Lab Sample ID: LCS 880-23954/2-A

Matrix: Solid

Analysis Batch: 24009

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

Prep Batch: 23954

	Spike	LCS	LCS				%Rec	
Analyte	Added	l Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	223.2	*_	mg/Kg		22	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	220.8	*-	mg/Kg		22	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	25	S1-	70 - 130
o-Terphenyl	19	S1-	70 - 130

Lab Sample ID: LCSD 880-23954/3-A

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23954

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 904.2 *1 mg/Kg 90 70 - 130 121 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 964.8 *1 mg/Kg 96 70 - 130 126 20 C10-C28)

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

Lab Sample ID: 880-13949-A-1-E MS

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 23954

Sample Sample Spike MS MS %Rec **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U *1 *-Gasoline Range Organics 999 1021 100 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *1 *-999 899.6 mg/Kg 90 70 - 130

C10-C28)

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

1/10 1/10

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: 880-13949-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 24009** Prep Batch: 23954

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier D %Rec Limits **RPD** Limit Analyte Unit <49.9 U *1 *-Gasoline Range Organics 999 1121 mg/Kg 111 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U *1 *-999 1081 108 70 - 130 mg/Kg 18 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/22 23:39	1

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	256.0		mg/Kg		102	90 - 110	 _

Lab Sample ID: LCSD 880-23899/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCSD I	LCSD				%Rec		RPD	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2212-A-1-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Sample Sample	Spike	MS MS				%Rec	
Analyte	Result Qualifier	Added	Result Qualifier	Unit	D	%Rec	Limits	
Chloride	5 18 F1	250	287 1 F1	ma/Ka		113	90 - 110	

Lab Sample ID: 890-2212-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

Allalysis Datell. 20070											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5.18	F1	250	272.1		mg/Kg		107	90 - 110	5	20

QC Association Summary

Client: Ensolum Project/Site: JRU LEGG BATTERY Job ID: 890-2213-1 SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID 890-2213-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method Prep Bato
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep

Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Total/NA	Solid	8015B NM	23954
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015B NM	23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

Analysis Batch: 24087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2213-1 SDG: 03E1558009

HPLC/IC

Leach Batch: 23899

Lab Sample ID 890-2213-1	Client Sample ID SS02	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2213-1	SS02	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	23899
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23899

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Lab Chronicle

Client: Ensolum Job ID: 890-2213-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS02 Lab Sample ID: 890-2213-1 Date Collected: 04/19/22 13:40

Matrix: Solid

Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 04:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24036	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24087	04/22/22 19:48	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23954	04/21/22 15:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/22/22 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 00:32	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: 890-2213-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date	
Texas	NELAP		T104704400-21-22	06-30-22	
The following analyte the agency does not	•	ort, but the laboratory is n	not certified by the governing authority.	This list may include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		

Method Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2213-1

SDG: 03E1558009

Method	Method Description	Protocol	XEN MID XEN MID	
8021B	Volatile Organic Compounds (GC)	SW846		
Total BTEX	Total BTEX Calculation	TAL SOP		
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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2213-1

SDG: 03E1558009

Lab Sample ID Client Sample ID Collected Matrix Received Depth 890-2213-1 SS02 Solid 04/19/22 13:40 04/19/22 16:26 0.5

Revised Date, 08/25/2020 Rev. 2020.

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

4.19.23

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.

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

Environment Testing

eurofins 💸

Xenco

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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

Superfund Di Water: H₂O DNC: NAPP2204943884 Level IV MeOH: Me HNO :: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes (C) 108047100 Zn Acetate+NaOH: Zn PST/UST TRRP RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn Other: VAHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 None: NO UST/PST ☐ PRP☐ Brownfields ☐ H3PO4: HP Page. Cool: Cool H; SO 4: H2 HCL: HC Work Order Comments ADaPT www.xenco.com Reporting: Level II Level III EDD | State of Project: Deliverables: 890-2213 Chain of Custody TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Program: ANALYSIS REQUEST XV Enorgy true. whited NM 2820 evolum. com Advison Balder Chlovide Has XAISI # of Cont Code C Parameters Kiennings Bill to: (if different) Company Name: Comp Grab/ Due Date: 2 Day 111 City, State ZIP: TAT starts the day received by OC-WM the lab, if received by 4:30pm Ves No Rush 705 W Wedley Are suite 24daddress: 2 Depth Turn Around 0.5 Email: Routine Corrected Temperature: Wet Ice: Sampled Temperature Reading: Time 041/4/24 1340 Thermometer ID: Correction Factor: 24.455 Date Sampled 817-683-2503 (Yes) No The Leys Rochers Circle Method(s) and Metal(s) to be analyzed arko Kalei Jennings O3E1558009 Midlung, TX Matrix 5 No N/A Yes No NA/A Temp Blank: 200.8 / 6020: Ensolve ACKIS (E) Yes Sample Identification 5502 Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Total Containers: Project Manager: ompany Name: Project Number. sampler's Name: Project Location City, State ZIP: Project Name: Address: Phone: :# 00

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Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-2213-1

 SDG Number: 03E1558009

Login Number: 2213 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2213-1

SDG Number: 03E1558009

List Source: Eurofins Midland
List Number: 2
List Creation: 04/21/22 11:26 AM

Creator: Rodriguez, Leticia

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

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10

12

13

12

<6mm (1/4").

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2214-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

J. KRAMER

Authorized for release by: 4/22/2022 8:03:16 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

-----LINKS

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Released to Imaging: 8/26/2022 1:43:27 PM

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

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: Ensolum
Project/Site: JRU LEGG BATTERY
Laboratory Job ID: 890-2214-1
SDG: 03E1558009

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Definitions/Glossary

Client: Ensolum Job ID: 890-2214-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Qualifiers

GC	VOA
Qual	ifier

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
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
HPLC/IC	
O 11.01	A 100 B 1 0

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

01

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
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 Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2214-1

SDG: 03E1558009

Job ID: 890-2214-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2214-1

Receipt

The sample was received on 4/19/2022 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-23954 and analytical batch 880-24009 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23954 and analytical batch 880-24009 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23899 and analytical batch 880-23976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-2214-1

Job ID: 890-2214-1

Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS03

Date Collected: 04/19/22 13:45 Date Received: 04/19/22 16:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0143		0.00201	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
Toluene	0.00633		0.00201	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/22 11:35	04/22/22 04:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/21/22 11:35	04/22/22 04:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130			04/21/22 11:35	04/22/22 04:48	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0206		0.00402	mg/Kg			04/22/22 11:18	1
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0	Unit ma/Ka	D	Prepared	Analyzed 04/22/22 20:56	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/22/22 20:56	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 *-	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	121		70 - 130			04/21/22 15:22	04/22/22 19:47	1
o-Terphenyl	125		70 - 130			04/21/22 15:22	04/22/22 19:47	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	rtoouit							

Surrogate Summary

Client: Ensolum Job ID: 890-2214-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-A-1-A MS	Matrix Spike	106	100	
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102	
890-2214-1	SS03	111	106	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	

OTPH = o-Terphenyl

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

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

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

				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-13949-A-1-E MS	Matrix Spike	96	91	
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109	
890-2214-1	SS03	121	125	
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-	
LCSD 880-23954/3-A	Lab Control Sample Dup	109	109	
MB 880-23954/1-A	Method Blank	120	135 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				

Client: Ensolum Job ID: 890-2214-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Analysis Batch: 23883

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23898

1

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	•
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	_	04/21/22 09:32	04/21/22 11:41	1
1,4-Difluorobenzene (Surr)	97		70 - 130		04/21/22 09:32	04/21/22 11:41	1

Lab Sample ID: MB 880-23940/5-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23940

Matrix: Solid Analysis Batch: 23883

мв мв

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Toluene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethylbenzene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-Xylene	<0.00200 U	J	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xylenes, Total	<0.00400 U	J	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 11:35	04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11:35	04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid

Analysis Batch: 23883

Client Samp	le ID:	Lab	Cont	rol Sa	amp	le Du	р
			Prep	Туре	: To	tal/N	A
			_	_			_

Prep Batch: 23940

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09617		mg/Kg		96	70 - 130	4	35

QC Sample Results

Client: Ensolum Job ID: 890-2214-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

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

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid Analysis Batch: 23883 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09442		mg/Kg		94	70 - 130	5	35
Ethylbenzene	0.100	0.09448		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	5	35
o-Xylene	0.100	0.09722		mg/Kg		97	70 - 130	5	35

LCSD LCSD

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

Lab Sample ID: 890-2207-A-1-A MS

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23940

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.1025		mg/Kg		102	70 - 130	
Toluene	<0.00201	U	0.101	0.09214		mg/Kg		91	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.101	0.07746		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.202	0.1606		mg/Kg		80	70 - 130	
o-Xylene	<0.00201	U F1	0.101	0.07856		mg/Kg		78	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2207-A-1-B MSD

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 23940

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.09413		mg/Kg		95	70 - 130	9	35
Toluene	<0.00201	U	0.0994	0.08168		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00201	U F2 F1	0.0994	0.03017	F2 F1	mg/Kg		30	70 - 130	88	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1354	F1	mg/Kg		68	70 - 130	17	35
o-Xylene	<0.00201	U F1	0.0994	0.06657	F1	mg/Kg		67	70 - 130	17	35

MSD MSD

Surroyate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-23954/1-A

Matrix: Solid

Analysis Batch: 24009

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

Prep Batch: 23954

мв мв Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 04/21/22 15:22 04/22/22 11:28 Gasoline Range Organics (GRO)-C6-C10

Client: Ensolum

Job ID: 890-2214-1

SDG: 03E1558009

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

Lab Sample ID: MB 880-23954/1-A **Matrix: Solid**

Analysis Batch: 24009

Project/Site: JRU LEGG BATTERY

Client Sample I	D: Method	Blank
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Prep Type: Total/NA

Prep Batch: 23954

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/22 15:22	04/22/22 11:28	1
o-Terphenyl	135	S1+	70 - 130	04/21/22 15:22	04/22/22 11:28	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-23954/2-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 24009** Prep Batch: 23954

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits 223.2 Gasoline Range Organics 1000 22 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 220.8 *-70 - 130 mg/Kg 22 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	25	S1-	70 - 130
o-Terphenyl	19	S1-	70 - 130

Lab Sample ID: LCSD 880-23954/3-A

Matrix: Solid

Analysis Batch: 24009

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

Prep Batch: 23954

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	904.2	*1	mg/Kg		90	70 - 130	121	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	964.8	*1	mg/Kg		96	70 - 130	126	20
C10-C28)									

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

Lab Sample ID: 880-13949-A-1-E MS

Matrix: Solid

Analysis Batch: 24009

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 23954

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1 *-	999	1021		mg/Kg		100	70 - 130	
Diesel Range Organics (Over	<49.9	U *1 *-	999	899.6		mg/Kg		90	70 - 130	

C10-C28)

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

Client: Ensolum Job ID: 890-2214-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

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

Lab Sample ID: 880-13949-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 24009**

Prep Batch: 23954

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U *1 *-	999	1121		mg/Kg		111	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U *1 *-	999	1081		mg/Kg		108	70 - 130	18	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A Client Sample ID: Method Blank

Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 23976

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/21/22 23:39	1

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-23899/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2212-A-1-D MS Client Sample ID: Matrix Spike **Matrix: Solid**

Analysis Batch: 23976

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5 18	F1	250	287 1	F1	ma/Ka		113	90 110	

Lab Sample ID: 890-2212-A-1-E MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 23976

Analysis Batom 20070												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	5.18	F1	250	272.1		ma/Ka		107	90 - 110	5	20	

Eurofins Carlsbad

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-2214-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	8015B NM	23954
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015B NM	23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

Analysis Batch: 24088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: JRU LEGG BATTERY
Job ID: 890-2214-1
SDG: 03E1558009

HPLC/IC

Leach Batch: 23899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Soluble	Solid	DI Leach	
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2214-1	SS03	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	23899
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23899

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Lab Chronicle

Client: Ensolum Job ID: 890-2214-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS03 Lab Sample ID: 890-2214-1 Date Collected: 04/19/22 13:45

Matrix: Solid

Date Received: 04/19/22 16:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 04:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24037	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24088	04/22/22 20:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23954	04/21/22 15:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/22/22 19:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 00:41	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
Project/Site: JRU LEGG BATTERY
Job ID: 890-2214-1
SDG: 03E1558009

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		it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2214-1

SDG: 03E1558009

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: JRU LEGG BATTERY

Job ID: 890-2214-1

SDG: 03E1558009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2214-1	SS03	Solid	04/19/22 13:45	04/19/22 16:26	0.5

Work Order No:

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

Environment Testing Xenco

💸 eurofins

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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

Chain of Custody

Revised Date: 08/25/2020 Rev. 2020.2

		Норря	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	Page of
Project Manager:	Kalo: Fennings	Bill to: (if different)	Honen Briller	Work Order Comments	nments
	1	Company Name:	XTO 6	Program: UST/PST ☐ PRP ☐ Brow	Brownfields ☐ RRC ☐ Superfund [
	205 (A) (A) CA) A) AVE Suit 240 Address:	k 240 Address:	W	State of Project:	
e ZIP:	Midlymd. TX 29205	City, State ZIP:		Reporting: Level III PST/UST TRRP Level IV	T/UST TRRP Level IV
Phone: 817	317-63-2503	Email: K; enn Mas	(3	Deliverables: EDD 🔲 ADaPT 🗌	Other:
Project Name:	TPV Ledy Button	Turn Around	ANALYSIS REQUEST	TSE	Preservative Codes
er:		Routine	Pres. Code		None: NO DI Water: H ₂ O
Project Location:		Due Date: Lacu TIPT			Cool: Cool
Sampler's Name:	Alexi Casto TAT	e day receiv			
PO #:	the	the lab, if received by 4:30pm	(-		H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	o Blank: (Yes) No	Wet Ice: Ves No	neterning.		H ₃ PO ₄ ; HP
Samples Received Intact:	(Ye) No Thermometer ID:	INM BOT	Trising I		NaHSO 4: NABIS
Cooler Custody Seals:	Yes No N/A Correction Factor:	7.0-) \$2.		Na ₂ S ₂ O ₃ : NaSO 3
Sample Custody Seals:	Yes No N/A Temperature Reading:	ding: 3. K	200		Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	rature: 3.6	+		NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix Sampled Sar	Time Depth Grab/	147		Sample Comments
5205	12	0.5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		INC: NAPP22049+3584
	1				COULDSOL TO
					1000
		1/			
		5	890-2214 Chain of Custody	Custody	
	\				
\					
Total 200.7 / 6010	8RCR,	8RCRA 13PPM Texas 11 A	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	Ai K Se	I Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RC	TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	e Ag TI U Hg: 1631/245.1/7470	7470 / 7471
Notice: Signature of this document and i of service, Eurofins Xenco will be liable of	relinquishment of samples constitutes a valid pu only for the cost of samples and shall not assums 6.885.00 will be applied to each project and a ch	rchase order from client company e any responsibility for any losses o arge of \$5 for each sample submit	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Nenco, 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 service. Eurofins Xenco will be an expensed and a change of \$5 for each sample submitted to Eurofins Year to that and Arzed. These terms will be annihalf to end or an expense and school and a change of \$5 for each sample submitted to Eurofins Year Dut not analyzed. These terms will be enforced unless previously negotiated.	and conditions and the control previously negotiated.	
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My Mars	1 100 001		7.20 606		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2214-1

SDG Number: 03E1558009

Login Number: 2214 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2214-1 SDG Number: 03E1558009

> List Source: Eurofins Midland List Creation: 04/21/22 11:26 AM

Creator: Rodriguez, Leticia

Login Number: 2214

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	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2215-1

Laboratory Sample Delivery Group: 03E1558009

Client Project/Site: JRU LEGG BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

MEAMER

Authorized for release by: 4/22/2022 8:03:16 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

-----LINKS

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Released to Imaging: 8/26/2022 1:43:27 PM

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
Project/Site: JRU LEGG BATTERY
Laboratory Job ID: 890-2215-1
SDG: 03E1558009

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Definitions/Glossary

Job ID: 890-2215-1 Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Qualifiers

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.

GC Semi VOA

Qualifier

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

Qualifier Description

HPLC/IC

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

Glossary Abbreviation

Approviation	Those commonly accertations may of may not so proceed in the report.
п	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

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

PRES Presumptive **Quality Control**

Relative Error Ratio (Radiochemistry) RER

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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2215-1

SDG: 03E1558009

Job ID: 890-2215-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2215-1

Receipt

The sample was received on 4/19/2022 4:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23940 and analytical batch 880-23883 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-23954 and analytical batch 880-24009 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23954 and analytical batch 880-24009 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-23899 and analytical batch 880-23976 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Job ID: 890-2215-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Lab Sample ID: 890-2215-1 Client Sample ID: SS04

Date Collected: 04/19/22 13:50 Matrix: Solid Date Received: 04/19/22 16:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00586		0.00199	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
Toluene	0.00437		0.00199	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/21/22 11:35	04/22/22 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			04/21/22 11:35	04/22/22 05:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/21/22 11:35	04/22/22 05:09	1
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0102		0.00398	mg/Kg			04/22/22 11:18	1
Analyte Total TPH		Qualifier	RL 49.9	Unit ma/Ka	D	Prepared	Analyzed 04/22/22 20:56	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			04/22/22 20:56	1
Method: 8015B NM - Diesel Rang	• • •							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.9	U *1 *-	49.9	mg/Kg		04/21/22 15:22	04/22/22 20:08	1
iesel Range Organics (Over 210-C28)	<49.9	U *1 *-	49.9	mg/Kg		04/21/22 15:22	04/22/22 20:08	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/21/22 15:22	04/22/22 20:08	1
urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-Chlorooctane	104		70 - 130			04/21/22 15:22	04/22/22 20:08	1
To color of	109		70 - 130			04/21/22 15:22	04/22/22 20:08	1
- ierpnenyi								
, .	omatography -	Soluble						
o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-2215-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2207-A-1-A MS	Matrix Spike	106	100	
890-2207-A-1-B MSD	Matrix Spike Duplicate	107	102	
890-2215-1	SS04	108	101	
LCS 880-23940/1-A	Lab Control Sample	106	103	
LCSD 880-23940/2-A	Lab Control Sample Dup	104	101	
MB 880-23898/5-A	Method Blank	101	97	
MB 880-23940/5-A	Method Blank	99	91	

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

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-13949-A-1-E MS	Matrix Spike	96	91	
880-13949-A-1-F MSD	Matrix Spike Duplicate	114	109	
890-2215-1	SS04	104	109	
LCS 880-23954/2-A	Lab Control Sample	25 S1-	19 S1-	
LCSD 880-23954/3-A	Lab Control Sample Dup	109	109	
MB 880-23954/1-A	Method Blank	120	135 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2215-1 SDG: 03E1558009 Project/Site: JRU LEGG BATTERY

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23898/5-A

Matrix: Solid

Analysis Batch: 23883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23898

1

Dil Fac

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 09:32	04/21/22 11:41	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/22 09:32	04/21/22 11:41	

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	97	70 ₋ 130

04/21/22 09:32 04/21/22 11:41 04/21/22 09:32 04/21/22 11:41

Prepared

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Batch: 23940

Lab Sample ID: MB 880-23940/5-A Matrix: Solid

Analysis Batch: 23883

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/22 11:35	04/21/22 22:17	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		04/21/22 11:35	04/21/22 22:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/21/22 11	:35 04/21/22 22:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/22 11	:35 04/21/22 22:17	1

Lab Sample ID: LCS 880-23940/1-A

Matrix: Solid

Analysis Batch: 23883

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

Prep Batch: 23940

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	
Toluene	0.100	0.09886		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2021		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1023		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: LCSD 880-23940/2-A

Matrix: Solid

Analysis Batch: 23883

Client Sample	ID: Lab Control	Sample Dup
	Dunin Ti	T-4-1/NIA

Prep Type: Total/NA

Prep Batch: 23940

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09617	mg/Kg		96	70 - 130	4	35

QC Sample Results

Job ID: 890-2215-1 Client: Ensolum Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Lab Sample ID: LCSD 880-23940/2-A **Matrix: Solid**

Analysis Batch: 23883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 23940

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09442		mg/Kg		94	70 - 130	5	35
Ethylbenzene	0.100	0.09448		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	5	35
o-Xylene	0.100	0.09722		mg/Kg		97	70 - 130	5	35

LCSD LCSD

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

Lab Sample ID: 890-2207-A-1-A MS Client Sample ID: Matrix Spike

Matrix: Solid

o-Xylene

Analysis Batch: 23883

Prep Type: Total/NA

Prep Batch: 23940

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene U 0.1025 <0.00201 0.101 mg/Kg 102 70 - 130 Toluene <0.00201 U 0.101 0.09214 91 70 - 130 mg/Kg Ethylbenzene 0.101 0.07746 70 - 130 <0.00201 U F2 F1 mg/Kg 77 <0.00402 U F1 0.202 0.1606 70 - 130 m-Xylene & p-Xylene mg/Kg 80

0.07856

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

0.101

MS MS

<0.00201 UF1

<0.00402 UF1

<0.00201 UF1

Result Qualifier

<50.0 U

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1 4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-2207-A-1-B MSD

Matrix: Solid Analysis Batch: 23883

m-Xylene & p-Xylene

o-Xylene

Client Sample ID: Matrix Spike Duplicate

70 - 130

70 - 130

70 - 130

78

68

Prep Type: Total/NA Prep Batch: 23940

17

35

35

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00201 U 0.0994 0.09413 mg/Kg 95 70 - 130 9 35 Toluene <0.00201 U 0.0994 0.08168 mg/Kg 82 70 - 130 12 35 Ethylbenzene <0.00201 U F2 F1 0.0994 0.03017 F2 F1 mg/Kg 30 70 - 130 88 35

0.199

0.0994

0.1354 F1

0.06657 F1

MSD MSD %Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 107 70 - 130 1,4-Difluorobenzene (Surr) 102 70 - 130

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

Lab Sample ID: MB 880-23954/1-A

Analysis Batch: 24009

Gasoline Range Organics

мв мв

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 23954

Prepared Analyzed 04/21/22 15:22 04/22/22 11:28

(GRO)-C6-C10

Analyte

Matrix: Solid

Eurofins Carlsbad

RL

50.0

Client: Ensolum

Job ID: 890-2215-1

SDG: 03E1558009

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

Lab Sample ID: MB 880-23954/1-A **Matrix: Solid**

Project/Site: JRU LEGG BATTERY

Analysis Batch: 24009

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 23954

Prep Type: Total/NA

126

20

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/21/22 15:22	04/22/22 11:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	04/21/22 15:22	04/22/22 11:28	1
o-Terphenyl	135	S1+	70 - 130	04/21/22 15:22	04/22/22 11:28	1

Client Sample ID: Lab Control Sample

70 - 130

Lab Sample ID: LCS 880-23954/2-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 23954 **Analysis Batch: 24009** LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 223.2 22 70 - 130 mg/Kg (GRO)-C6-C10 1000 220.8 *-Diesel Range Organics (Over 22 70 - 130mg/Kg C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	25	S1-	70 - 130
o-Terphenyl	19	S1-	70 - 130

Lab Sample ID: LCSD 880-23954/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Diesel Range Organics (Over

C10-C28)

o-Terphenyl

Analysis Batch: 24009							Prep	Batch:	23954
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	904.2	*1	mg/Kg		90	70 - 130	121	20
(GRO)-C6-C10									

964.8 *1

MS MS

mg/Kg

1000

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

Analysis Batch: 24009

Lab Sample ID: 880-13949-A-1-E MS	Client Sample ID: Matrix Spike
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 24009	Prep Batch: 23954

Spike %Rec Sample Sample Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits <49.9 U *1 *-999 Gasoline Range Organics 1021 100 70 - 130mg/Kg (GRO)-C6-C10 <49.9 U *1 *-999 899.6 Diesel Range Organics (Over mg/Kg 90 70 - 130

C10-C28)

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

Lab Sample ID: 880-13949-A-1-F MSD

Client: Ensolum Job ID: 890-2215-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23954

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U *1 *-	999	1121		mg/Kg		111	70 - 130	9	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U *1 *-	999	1081		mg/Kg		108	70 - 130	18	20	
0.10, 0.00)												

C10-C28)

Matrix: Solid

Analysis Batch: 24009

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	109		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23899/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 23976

мв мв

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/21/22 23:39	1

Lab Sample ID: LCS 880-23899/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 23976

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-23899/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20	

Lab Sample ID: 890-2212-A-1-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 23976

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5 18	F1	250	287 1	F1	ma/Ka		113	90 _ 110	

Lab Sample ID: 890-2212-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 23976

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5.18	F1	250	272.1		mg/Kg		107	90 - 110	5	20

QC Association Summary

Client: Ensolum Job ID: 890-2215-1 Project/Site: JRU LEGG BATTERY SDG: 03E1558009

GC VOA

Analysis Batch: 23883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	8021B	23940
MB 880-23898/5-A	Method Blank	Total/NA	Solid	8021B	23898
MB 880-23940/5-A	Method Blank	Total/NA	Solid	8021B	23940
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	8021B	23940
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23940
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	23940
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23940

Prep Batch: 23898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23898/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 23940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	5035	
MB 880-23940/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23940/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23940/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2207-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2207-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 24038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	8015B NM	23954
MB 880-23954/1-A	Method Blank	Total/NA	Solid	8015B NM	23954
LCS 880-23954/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23954
LCSD 880-23954/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23954
880-13949-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	23954
880-13949-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23954

Analysis Batch: 24089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: JRU LEGG BATTERY
Job ID: 890-2215-1
SDG: 03E1558009

HPLC/IC

Leach Batch: 23899

Lab Sample ID 890-2215-1	Client Sample ID SS04	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-23899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2215-1	SS04	Soluble	Solid	300.0	23899
MB 880-23899/1-A	Method Blank	Soluble	Solid	300.0	23899
LCS 880-23899/2-A	Lab Control Sample	Soluble	Solid	300.0	23899
LCSD 880-23899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23899
890-2212-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	23899
890-2212-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23899

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4.6

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Lab Chronicle

Client: Ensolum Job ID: 890-2215-1
Project/Site: JRU LEGG BATTERY SDG: 03E1558009

Client Sample ID: SS04 Lab Sample ID: 890-2215-1

Matrix: Solid

Date Collected: 04/19/22 13:50 Date Received: 04/19/22 16:26

	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	23940	04/21/22 11:35	MR	XEN MID
Total/NA	Analysis	8021B		1			23883	04/22/22 05:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24038	04/22/22 11:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24089	04/22/22 20:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23954	04/21/22 15:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24009	04/22/22 20:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23899	04/21/22 09:33	CH	XEN MID
Soluble	Analysis	300.0		1			23976	04/22/22 00:50	CH	XEN MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2215-1 Project/Site: JRU LEGG BATTERY

SDG: 03E1558009

Laboratory: Eurofins Midland

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

		rogram	Identification Number	Expiration Date
		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	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Ensolum

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: JRU LEGG BATTERY

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 890-2215-1

SDG: 03E1558009

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

XEN MID

XEN MID

SW846

ASTM

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

Eurofins Carlsbad

Released to Imaging: 8/26/2022 1:43:27 PM

Sample Summary

Client: Ensolum

Project/Site: JRU LEGG BATTERY

Job ID: 890-2215-1

SDG: 03E1558009

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2215-1	SS04	Solid	04/19/22 13:50	04/19/22 16:26	0.5

Work Order No:

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Environment Testing

💸 eurofins

Chain of Custody

				Hobi	55, NM (575)	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	, NM (575) 988-3199	www.xenco.com	om Page	l of
Project Manager:	Kulei Jany	Consings		Bill to: (if different)	1()	Adrican B	Baker	Work Order Comments	Comments	
Company Name:	Gasolun IL	į		Company Name:	2.5	XXD Floerdus	erdus trac	Program: UST/PST PRP Brownfields		RRC Superfund
Address:	705 W Wadley		Ave Suit OA			3 4018	8	State of Project:		
e ZIP:	Millond, TX 74705	79705		City, State ZIP:		Culshad,	WISHAS, NM 88770	Reporting: Level Level	PST/UST 1	PST/UST TRRP Level IV
	817-683-2503	503	Email:	Kjennings	3	Chrolim. Com	CMC	Deliverables: EDD AD	ADaPT ☐ Other:	ler:
Project Name:	7.8.1 (can p	Batter	Turn	Turn Around			ANALYSIS REQUEST	JEST	Preserv	Preservative Codes
Project Number:		109	Routine	Rush	Pres.				None: NO	DI Water: H ₂ O
Project Location:	Colin		Due Date:	2047 JAT					Cool: Cool	MeOH: Me
Sampler's Name:	Alexis Las	astro	TAT starts the	day received by			-		HCL: HC	HNO 3: HN
PO #:		d	the lab, if rec	the lab, if received by 4:30pm	S				H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Ye	Wet Ice:	/ves) No	leter:				H₃PO 4: HP	
Samples Received Intact:	: (Yes) No	Thermometer ID:	er ID:	FOO MINI	men				NaHSO 4: NABIS	BIS
Cooler Custody Seals:	Yes No MA	Correction Factor:	actor:	2,0-	Pa		pon-2215 Chain of Custody	in of Custody	Na ₂ S ₂ O ₃ : NaSO	so ₃
Sample Custody Seals:	Yes No N/A	Temperature Reading:	e Reading:	ک			000	-	Zn Acetate+NaOH: Zn	JaOH: Zn
Total Containers:		Corrected T	Corrected Temperature:	3.10					NaOH+Ascort	NaOH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix	x Sampled	Time	Depth Grab/	# of Cont	141 13			Sample	Sample Comments
7077	2	m(+/14/21	Ш.	150	-	× - ム - よ			INC. MAP	INC. NAPP2204943884
100									CL: 108097100	171001
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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: nd Metal(s) to be an		8RCRA 13PPI TCLP / SP	PLP 6010 : 8R0	Al Sb A	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd C	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo NTCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn r Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471	Sr Tl Sn U V Z 5.1 / 7470 / 7471	Zn 1
Notice: Signature of this docume of service. Eurofins Xenco will by of Eurofins Xenco. A minimum of	ent and relinquishment of sarr e liable only for the cost of sar. charge of \$85.00 will be applie	nples constitutes a mples and shall not of to each project a	valid purchase orc assume any respond a charge of \$5	Ser from client compart Ansibility for any losses for each sample subm	y to Eurofins or expenses litted to Eurof	Xenco, its affiliates and incurred by the client if fins Xenco, but not anal	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. 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.	ms and conditions eyond the control ssprendously negotiated.		
Relinquished by: (Signature)	ignature)	Received	Received by: (Signature	e)	۵	Date/Time	Relinquished by: (Signature)	ure) Received by: (Signature)	ure)	Date/Time
Mr Com	N	030	3		4.19	4.19.22 1621	4			
3			+							

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2215-1 SDG Number: 03E1558009

List Source: Eurofins Carlsbad

Login Number: 2215 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 <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2215-1 SDG Number: 03E1558009

Login Number: 2215
List Source: Eurofins Midland
List Number: 2
List Creation: 04/21/22 11:26 AM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

.....LINKS

Review your project results through

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Have a Question?

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Visit us at:



ANALYTICAL REPORT

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

Laboratory Job ID: 890-2308-1

Laboratory Sample Delivery Group: 03E1558009 Client Project/Site: JRU LEGGS BATTERY

For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 5/18/2022 12:23:06 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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

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

Client: Ensolum
Project/Site: JRU LEGGS BATTERY
Laboratory Job ID: 890-2308-1
SDG: 03E1558009

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Definitions/Glossary

Job ID: 890-2308-1 Client: Ensolum Project/Site: JRU LEGGS BATTERY

SDG: 03E1558009

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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**

F1 MS and/or MSD recovery exceeds control limits. 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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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) Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: JRU LEGGS BATTERY

Job ID: 890-2308-1

SDG: 03E1558009

Job ID: 890-2308-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2308-1

Receipt

The samples were received on 5/12/2022 2:26 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 21.2°C

GC VOA

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

GC Semi VOA

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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25611 and analytical batch 880-25727 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum Job ID: 890-2308-1
Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Client Sample ID: SS01A

Date Collected: 05/12/22 12:45

Lab Sample ID: 890-2308-1

Matrix: Solid

Date Collected: 05/12/22 12:45
Date Received: 05/12/22 14:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 22:43	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 22:43	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 22:43	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/22 13:04	05/16/22 22:43	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 22:43	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/22 13:04	05/16/22 22:43	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			05/16/22 13:04	05/16/22 22:43	
1,4-Difluorobenzene (Surr)	96		70 - 130			05/16/22 13:04	05/16/22 22:43	
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/17/22 11:08	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			05/17/22 09:43	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 13:51	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 13:51	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 13:51	
			Limits			Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Limits					
		Qualifier	70 - 130			05/16/22 08:41	05/16/22 13:51	
1-Chlorooctane		Qualifier				05/16/22 08:41 05/16/22 08:41	05/16/22 13:51 05/16/22 13:51	
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	96 98		70 - 130					
1-Chlorooctane o-Terphenyl	96 98 omatography -		70 - 130	Unit	D			Dil Fa

Client Sample ID: SS02A Lab Sample ID: 890-2308-2

Date Collected: 05/12/22 12:18 Date Received: 05/12/22 14:26

Date Received. 60/12/22 1.

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/22 13:04	05/16/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			05/16/22 13:04	05/16/22 23:03	1

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Matrix: Solid

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Matrix: Solid

Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Client Sample ID: SS02A Lab Sample ID: 890-2308-2

Date Collected: 05/12/22 12:18 Date Received: 05/12/22 14:26

Sample Depth: 2

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	05/16/22 13:04	05/16/22 23:03	1

Method: To	otal BTFX - To	otal BTEX Cal	culation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			05/17/22 11:08	1

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			05/17/22 09:43	1

Mothod: 904ED N	IM Discol	Dange Ore	raniaa /	DBO) /	CCI
Method: 8015B N	AIM - DIESEL	Range Org	janicə (i		GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:12	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:12	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	115	70 - 130	05/16/22 08:41
o-Terphenyl	116	70 - 130	05/16/22 08:41

o-Terphenyl	116	70 - 130		05/16/22 08:41	05/16/22 14:12	1	
Method: 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac	

4.98 mg/Kg Chloride 16.9 Client Sample ID: SS03A Lab Sample ID: 890-2308-3

Date Collected: 05/12/22 12:15

Date Received: 05/12/22 14:26 Sample Depth: 2

Method: 8021B - Volatile Orgal	etnod: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
Toluene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/16/22 13:04	05/16/22 23:24	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	113		70 - 130			05/16/22 13:04	05/16/22 23:24	1		
1,4-Difluorobenzene (Surr)	96		70 - 130			05/16/22 13:04	05/16/22 23:24	1		

Mothod:	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	ma/Ka			05/17/22 11:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/17/22 09:43	1

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05/16/22 14:12

05/17/22 20:43

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2308-3

Job ID: 890-2308-1

Client: Ensolum Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Client Sample ID: SS03A Date Collected: 05/12/22 12:15 Date Received: 05/12/22 14:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/16/22 08:41	05/16/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			05/16/22 08:41	05/16/22 14:33	1
o-Terphenyl	107		70 - 130			05/16/22 08:41	05/16/22 14:33	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro	0.,	Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04A Lab Sample ID: 890-2308-4 Date Collected: 05/12/22 12:10 Matrix: Solid

Date Received: 05/12/22 14:26

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/16/22 13:04	05/16/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			05/16/22 13:04	05/16/22 23:44	1
1,4-Difluorobenzene (Surr)	88		70 - 130			05/16/22 13:04	05/16/22 23:44	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/17/22 11:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/17/22 09:43	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 14:54	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 14:54	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 14:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/16/22 08:41	05/16/22 14:54	1
o-Terphenyl	106		70 - 130			05/16/22 08:41	05/16/22 14:54	1

Eurofins Carlsbad

5/18/2022

Client Sample Results

Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Client Sample ID: SS04A Lab Sample ID: 890-2308-4 Matrix: Solid

Date Collected: 05/12/22 12:10 Date Received: 05/12/22 14:26

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<4.95	U	4.95	mg/Kg			05/17/22 20:55	1

Surrogate Summary

Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2308-1	SS01A	115	96	
890-2308-1 MS	SS01A	105	94	
890-2308-1 MSD	SS01A	106	96	
390-2308-2	SS02A	110	96	
890-2308-3	SS03A	113	96	
890-2308-4	SS04A	95	88	
LCS 880-25634/1-A	Lab Control Sample	103	95	
LCSD 880-25634/2-A	Lab Control Sample Dup	101	94	
MB 880-25578/5-A	Method Blank	101	93	
MB 880-25634/5-A	Method Blank	103	92	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2307-A-1-C MS	Matrix Spike	100	88	
890-2307-A-1-D MSD	Matrix Spike Duplicate	98	87	
890-2308-1	SS01A	96	98	
890-2308-2	SS02A	115	116	
890-2308-3	SS03A	103	107	
890-2308-4	SS04A	102	106	
LCS 880-25590/2-A	Lab Control Sample	113	104	
LCSD 880-25590/3-A	Lab Control Sample Dup	108	104	
MB 880-25590/1-A	Method Blank	113	123	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25578/5-A

Matrix: Solid Analysis Batch: 25591 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25578

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/15/22 16:33	05/16/22 11:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/15/22 16:33	05/16/22 11:44	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/15/22 16:33	05/16/22 11:44	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/15/22 16:33	05/16/22 11:44	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/15/22 16:33	05/16/22 11:44	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/15/22 16:33	05/16/22 11:44	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/15/22 16:33	05/16/22 11:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/15/22 16:33	05/16/22 11:44	1

Lab Sample ID: MB 880-25634/5-A

Matrix: Solid

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

Prep Batch: 25634

Analysis Batch: 25591	
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	INID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:04	05/16/22 22:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/22 13:04	05/16/22 22:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:04	05/16/22 22:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/22 13:04	05/16/22 22:21	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/16/22 13:0	4 05/16/22 22:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/22 13:0	4 05/16/22 22:21	1

Lab Sample ID: LCS 880-25634/1-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25634

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09542		mg/Kg		95	70 - 130	
Toluene	0.100	0.1003		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-25634/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID:	Lab Control Sample Dup
	Duny Towns Total/NIA

Prep Type: Total/NA

Prep Batch: 25634

	Бріке	LCSD LCSD				%Rec		KPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08697	mg/Kg		87	70 - 130	9	35	

QC Sample Results

Client: Ensolum Job ID: 890-2308-1 SDG: 03E1558009 Project/Site: JRU LEGGS BATTERY

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

Lab Sample ID: LCSD 880-25634/2-A

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25634

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Toluene	0.100	0.09254		mg/Kg		93	70 - 130	8	35	
Ethylbenzene	0.100	0.09409		mg/Kg		94	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	8	35	
o-Xylene	0.100	0.09588		mg/Kg		96	70 - 130	8	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2308-1 MS

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: SS01A Prep Type: Total/NA

Prep Batch: 25634

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.07755		mg/Kg	_	77	70 - 130	
Toluene	< 0.00199	U	0.101	0.08392		mg/Kg		83	70 - 130	
Ethylbenzene	< 0.00199	U	0.101	0.08638		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1758		mg/Kg		87	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.08967		mg/Kg		89	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-2308-1 MSD

Matrix: Solid

Analysis Batch: 25591

Client Sample ID: SS01A

Prep Type: Total/NA

Prep Batch: 25634

	7											
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00199	U	0.100	0.08053		mg/Kg		80	70 - 130	4	35
	Toluene	< 0.00199	U	0.100	0.08566		mg/Kg		85	70 - 130	2	35
	Ethylbenzene	<0.00199	U	0.100	0.08559		mg/Kg		85	70 - 130	1	35
	m-Xylene & p-Xylene	<0.00398	U	0.200	0.1783		mg/Kg		89	70 - 130	1	35
	o-Xylene	<0.00199	U	0.100	0.09019		mg/Kg		90	70 - 130	1	35
ı												

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-25590/1-A

Matrix: Solid

Analysis Batch: 25580

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

Prep Batch: 25590

мв мв

Result Qualifier Unit Prepared <50.0 U 50.0 mg/Kg 05/16/22 08:41 05/16/22 11:32 Gasoline Range Organics (GRO)-C6-C10

Project/Site: JRU LEGGS BATTERY

o-Terphenyl

Client: Ensolum

Job ID: 890-2308-1

05/16/22 08:41

05/16/22 11:32

SDG: 03E1558009

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

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Lab Sample ID: MB 880-25590/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 25580 Prep Batch: 25590

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 11:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/16/22 08:41	05/16/22 11:32	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/16/22 08:41	05/16/22 11:32	1

70 - 130

Lab Sample ID: LCS 880-25590/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 25580 Prep Batch: 25590 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1299 130 70 - 130 mg/Kg (GRO)-C6-C10 1000 927.4 Diesel Range Organics (Over mg/Kg 93 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 113 o-Terphenyl 104 70 - 130

Lab Sample ID: LCSD 880-25590/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 25580 Prep Batch: 25590 Spike LCSD LCSD %Rec RPD

Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		1000	1165		mg/Kg		117	70 - 130	11	20
(GRO)-C6-C10										
Diesel Range Organics (Over		1000	884.5		mg/Kg		88	70 - 130	5	20
C10-C28)										
	LCSD LCSD									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	104		70 - 130
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Lab Sample ID: 890-2307-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25580 Prep Batch: 25590

	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	1269		mg/Kg		123	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	903.5		mg/Kg		90	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	100		70 - 130							

70 - 130 o-Terphenyl **Eurofins Carlsbad** Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

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

Lab Sample ID: 890-2307-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 25580 Prep Batch: 25590

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1250		mg/Kg		121	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	948.0		mg/Kg		95	70 - 130	5	20

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 98 o-Terphenyl 87 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25611/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25727

мв мв

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			05/17/22 17:27	1

Lab Sample ID: LCS 880-25611/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25727

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	271.7		mg/Kg		109	90 - 110	

Lab Sample ID: LCSD 880-25611/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25727

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	262.1		mg/Kg		105	90 - 110	4	20	

Lab Sample ID: 880-14801-A-3-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25727

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	844	F1	248	1142	F1	ma/Ka	_	120	90 110	

Lab Sample ID: 880-14801-A-3-C MSD

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25727

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	844	F1	248	1018	F1	mg/Kg		70	90 - 110	11	20

QC Association Summary

Client: Ensolum

Project/Site: JRU LEGGS BATTERY

Job ID: 890-2308-1

SDG: 03E1558009

GC VOA

Prep Batch: 25578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25578/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	8021B	25634
890-2308-2	SS02A	Total/NA	Solid	8021B	25634
890-2308-3	SS03A	Total/NA	Solid	8021B	25634
890-2308-4	SS04A	Total/NA	Solid	8021B	25634
MB 880-25578/5-A	Method Blank	Total/NA	Solid	8021B	25578
MB 880-25634/5-A	Method Blank	Total/NA	Solid	8021B	25634
LCS 880-25634/1-A	Lab Control Sample	Total/NA	Solid	8021B	25634
LCSD 880-25634/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25634
890-2308-1 MS	SS01A	Total/NA	Solid	8021B	25634
890-2308-1 MSD	SS01A	Total/NA	Solid	8021B	25634

Prep Batch: 25634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	5035	
890-2308-2	SS02A	Total/NA	Solid	5035	
890-2308-3	SS03A	Total/NA	Solid	5035	
890-2308-4	SS04A	Total/NA	Solid	5035	
MB 880-25634/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25634/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25634/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2308-1 MS	SS01A	Total/NA	Solid	5035	
890-2308-1 MSD	SS01A	Total/NA	Solid	5035	

Analysis Batch: 25707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	Total BTEX	·
890-2308-2	SS02A	Total/NA	Solid	Total BTEX	
890-2308-3	SS03A	Total/NA	Solid	Total BTEX	
890-2308-4	SS04A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 25580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	8015B NM	25590
890-2308-2	SS02A	Total/NA	Solid	8015B NM	25590
890-2308-3	SS03A	Total/NA	Solid	8015B NM	25590
890-2308-4	SS04A	Total/NA	Solid	8015B NM	25590
MB 880-25590/1-A	Method Blank	Total/NA	Solid	8015B NM	25590
LCS 880-25590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25590
LCSD 880-25590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25590
890-2307-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25590
890-2307-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25590

Prep Batch: 25590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum

Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY

SDG: 03E1558009

GC Semi VOA (Continued)

Prep Batch: 25590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-2	SS02A	Total/NA	Solid	8015NM Prep	
890-2308-3	SS03A	Total/NA	Solid	8015NM Prep	
890-2308-4	SS04A	Total/NA	Solid	8015NM Prep	
MB 880-25590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2307-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2307-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Total/NA	Solid	8015 NM	
890-2308-2	SS02A	Total/NA	Solid	8015 NM	
890-2308-3	SS03A	Total/NA	Solid	8015 NM	
890-2308-4	SS04A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Soluble	Solid	DI Leach	
890-2308-2	SS02A	Soluble	Solid	DI Leach	
890-2308-3	SS03A	Soluble	Solid	DI Leach	
890-2308-4	SS04A	Soluble	Solid	DI Leach	
MB 880-25611/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25611/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25611/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14801-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14801-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2308-1	SS01A	Soluble	Solid	300.0	25611
890-2308-2	SS02A	Soluble	Solid	300.0	25611
890-2308-3	SS03A	Soluble	Solid	300.0	25611
890-2308-4	SS04A	Soluble	Solid	300.0	25611
MB 880-25611/1-A	Method Blank	Soluble	Solid	300.0	25611
LCS 880-25611/2-A	Lab Control Sample	Soluble	Solid	300.0	25611
LCSD 880-25611/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25611
880-14801-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	25611
880-14801-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25611

SDG: 03E1558009

Client Sample ID: SS01A

Lab Sample ID: 890-2308-1

Matrix: Solid

Date Collected: 05/12/22 12:45 Date Received: 05/12/22 14:26

	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	25634	05/16/22 13:04	MR	XEN MID
Total/NA	Analysis	8021B		1			25591	05/16/22 22:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25707	05/17/22 11:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25681	05/17/22 09:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25590	05/16/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 13:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25611	05/16/22 10:46	CH	XEN MID
Soluble	Analysis	300.0		1			25727	05/17/22 20:37	CH	XEN MID

Client Sample ID: SS02A Lab Sample ID: 890-2308-2

Date Collected: 05/12/22 12:18 Matrix: Solid Date Received: 05/12/22 14:26

	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	25634	05/16/22 13:04	MR	XEN MID
Total/NA	Analysis	8021B		1			25591	05/16/22 23:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25707	05/17/22 11:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25681	05/17/22 09:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25590	05/16/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 14:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25611	05/16/22 10:46	CH	XEN MIC
Soluble	Analysis	300.0		1			25727	05/17/22 20:43	CH	XEN MID

Client Sample ID: SS03A Lab Sample ID: 890-2308-3

Date Collected: 05/12/22 12:15 Date Received: 05/12/22 14:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25634	05/16/22 13:04	MR	XEN MIC
Total/NA	Analysis	8021B		1			25591	05/16/22 23:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25707	05/17/22 11:08	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25681	05/17/22 09:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25590	05/16/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25611	05/16/22 10:46	CH	XEN MID
Soluble	Analysis	300.0		1			25727	05/17/22 20:49	CH	XEN MID

Client Sample ID: SS04A Lab Sample ID: 890-2308-4

Date Collected: 05/12/22 12:10 Date Received: 05/12/22 14:26

Γ	Batch	Batch		Dil	Initial	Final	Batch	Duamanad		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25634	05/16/22 13:04	MR	XEN MID
Total/NA	Analysis	8021B		1			25591	05/16/22 23:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25707	05/17/22 11:08	SM	XEN MID

Eurofins Carlsbad

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Released to Imaging: 8/26/2022 1:43:27 PM

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-2308-1
Project/Site: JRU LEGGS BATTERY SDG: 03E1558009

Client Sample ID: SS04A Lab Sample ID: 890-2308-4

Date Collected: 05/12/22 12:10
Date Received: 05/12/22 14:26
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25681	05/17/22 09:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25590	05/16/22 08:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25580	05/16/22 14:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25611	05/16/22 10:46	CH	XEN MID
Soluble	Analysis	300.0		1			25727	05/17/22 20:55	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-2308-1 Project/Site: JRU LEGGS BATTERY

SDG: 03E1558009

Laboratory: Eurofins Midland

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

Authority	Pr	rogram	Identification Number	Expiration Date	
exas		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: JRU LEGGS BATTERY

Job ID: 890-2308-1 SDG: 03E1558009

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B 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
3015NM Prep	Microextraction	SW846	XEN MID
OI 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

Eurofins Carlsbad

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Sample Summary

Solid

Solid

Client: Ensolum

Lab Sample ID 890-2308-1

890-2308-2

890-2308-3

890-2308-4

Project/Site: JRU LEGGS BATTERY

SS01A

SS02A

SS03A

SS04A

Client Sample ID

Job ID: 890-2308-1 SDG: 03E1558009

Matrix	Collected	Received	Depth	
Solid	05/12/22 12:45	05/12/22 14:26	2	
Solid	05/12/22 12:18	05/12/22 14:26	2	

05/12/22 14:26 2

05/12/22 12:10

Chain of Custody

eurotins		Environment Testing Xenco	ting	Houst Midland, EL Pas o Hobbs,	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	0, Dallas, TX (214 ian Antonio, TX (2 Lubbock, TX (806 Carlsbad, NM (57) 902-0300 (10) 509-3334) 794-1296 5) 988-3199		Work Order No:		2,
	-1			116 116					www.xenco.com	work Order Comments	l of
Project Manager:	En Solum)	0 5	Company Name:				Program: UST	UST/PST PRP Brownfields		RRC Superfund
Address:			A	Address:				State of Project:			
City, State ZIP:			0	City, State ZIP:				Reporting: Leve	Reporting: Level II Level III	PST/UST TRRP	RRP Level IV
Phone:	817-683	3-2503	Email:	Kjannys	0	ensolum.	Con	Deliverables:	EDD A	ADaPT Other:	ier:
Project Name:	SRU legs	5 Battery	Turn Around	ound			ANALYSIS REQUEST	QUEST		Preserva	Preservative Codes
er:	8 551 350	Ö	X Routine	Rush	Pres. Code					None: NO	DI Water: H ₂ O
	1583	9H23	Due Date:)				Cool: Cool	MeOH: Me
	3		TAT starts the day received by	y received by		-	_			HCL: HC	HNO 3: HN
PO #:			the lab, if received by 4:30pm	ed by 4:30pm	21	-				H ₂ S0 ₄ ; H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes (No	Wet Ice:	Yes No	neter 301	3				H,PO4:HP	
Samples Received Intact:		Thermometer ID:		HOO. WU	(8	-			=	NaHSO 4: NABIS	BIS
Cooler Custody Seals:	ON	1	1		×		890-2308 Chain	nain of Custody		2 / 2 / 2 / N - N - N	
Total Containers:	res No	Corrected Temperature:	œ	<u>ン</u>	TE Pl	1		-		NaOH+Ascorbic Acid: SAPC	pic Acid: SAPC
Sample Identification		Matrix Date Sampled		Depth Comp		(Sample	Sample Comments
5501 A	9.	921 5/12/22	1245	2' 600	ーディン	×					
9502 A			512								
8 6055 A			12/5								
46065		+	0121	*	+	*					
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: nd Metal(s) to be a	-	8RCRA 13PPM TCLP/SPLP	Texas 11 / P 6010 : 8RCI	Al Sb As Ba Be CRA Sb As Ba B	Be B Cd Ca C a Be Cd Cr Co	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo NTCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	<u>≤.</u> ⊼	Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1	TI Sn U V /7470 /747	Zn 71
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 sancte. 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 it such losses are due to circumstances beyond the control of sanctines. For expenses incurred by the client it such losses are due to circumstances beyond the control of sanctines. The sanctines 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 nego	ent and relinquishment of se liable only for the cost of charge of \$85,00 will be an	f samples constitutes a v of samples and shall not a	alid purchase order f assume any responsi	fom client company bility for any losses o	to Eurofins Xenco, Its aff r expenses incurred by t ted to Eurofins Xenco, b	Mates and subconti the client if such loss ut not analyzed. The	ractors. It assigns standard ses are due to circumstances ese terms will be enforced u	terms and conditions s beyond the control nless previously negotiated.			
Relinquished by: (Signature)	Signature)	Received b	Received by: (Signature)		Date/Time	Rel	Relinquished by: (Signature)	re)	Received by: (Signature)		Date/Time
100	2	Chu Ch	0		5-12-22	1436					
5						6					

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-2308-1 SDG Number: 03E1558009

Login Number: 2308 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2308-1

SDG Number: 03E1558009

Login Number: 2308
List Source: Eurofins Midland
List Number: 2
List Creation: 05/16/22 09:25 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

From: Hamlet, Robert, EMNRD

To: Collins, Melanie

Cc: DelawareSpills /SM; Aimee Cole; Kalei Jennings; Ashley Ager; Tacoma Morrissey; Pennington, Shelby G;

Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD

Subject: (Extension Request) - JRU Legg Battery (Incident Number NAPP2204943884)

Date: Tuesday, May 3, 2022 2:25:40 PM

Attachments: image002.jpg image003.png

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2204943884

Melanie,

Your request for an extension to **July 5th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Collins, Melanie <melanie.collins@exxonmobil.com>

Sent: Tuesday, May 3, 2022 10:22 AM

To: Enviro, OCD, EMNRD <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>; acole@ensolum.com; Kalei Jennings <kjennings@ensolum.com>; aager@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>; Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>

Subject: [EXTERNAL] XTO - Extension Request - JRU Legg Battery (Incident Number NAPP2204943884)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

JRU Legg Battery (Incident Number NAPP2204943884)

XTO is requesting an extension for the current deadline of May 5, 2022, for submitting a deferral

report required in 19.15.29.12.B.(1) NMAC at the JRU Legg Battery (Incident Number NAPP2204943884). The release was discovered on February 4, 2022, and vertical delineation inside the secondary containment has been completed. Based on the laboratory analytical results, XTO is requesting a 60-day extension to complete lateral delineation of the impacted soil for deferral. In order to complete the delineation activities and submit a deferral request, XTO requests an extension until July 5, 2022.

Thank you,

Melanie Collins

SSHE Technician



An **ExxonMobil** Subsidiary 6401 Holiday Hill Rd, Bldg 5 Midland, TX 79707 432-218-3709

Green, Garrett J

From: Green, Garrett J

Sent: Friday, February 11, 2022 2:46 PM

To: Mike Bratcher; Victoria Venegas; Rob Hamlet

Cc: Pennington, Shelby G; Baker, Adrian; Allen, Michael; Mascarenas, Aaron; DelawareSpills

/SM

Subject: RE: XTO 24 Hour notification - Release date 2/5/22 JRU Legg Battery

All,

I am sending this in regards to an error in this notification. Release occurred during the night of Friday 2/4/2022. Details will be provided with a form C-141.

Thank you, Garrett

From: Green, Garrett J

Sent: Saturday, February 5, 2022 5:37 PM

To: 'Mike Bratcher' <mike.bratcher@state.nm.us>; 'Victoria Venegas' <Victoria.Venegas@state.nm.us>; 'Rob Hamlet'

<robert.hamlet@state.nm.us>; 'emily.hernandez@state.nm.us' <emily.hernandez@state.nm.us>

Cc: Pennington, Shelby G <shelby.g.pennington@exxonmobil.com>; Baker, Adrian <adrian.baker@exxonmobil.com>;

Allen, Michael <michael.allen@exxonmobil.com>; Mascarenas, Aaron <aaron.mascarenas@exxonmobil.com>

Subject: XTO 24 Hour notification - Release date 2/5/22 JRU Legg Battery

All,

This is notification of a release greater than 25 barrels that occurred today at the JRU Legg Battery near the GPS coordinates given below. All of the fluids remained in containment and all fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.36851,-103.86746

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: <u>Aimee Cole</u>

To: <u>Tacoma Morrissey</u>; <u>Kalei Jennings</u>; <u>Ben Belill</u>

Subject: FW: XTO - Sampling Notification (week of 5/9/22 - 5/13/22)

Date: Wednesday, May 4, 2022 3:57:05 PM

Attachments: image001.png

image002.png image003.png image004.png

For your records.



Aimee Cole

Senior Managing Scientist 720-384-7365

Ensolum, LLC

From: Baker, Adrian <adrian.baker@exxonmobil.com>

Sent: Wednesday, May 4, 2022 1:56 PM

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

<Jennifer.Nobui@state.nm.us>; Chad.Hensley@state.nm.us

Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Aimee Cole <acole@ensolum.com>; Green, Garrett J <garrett.green@exxonmobil.com>

Subject: XTO - Sampling Notification (week of 5/9/22 - 5/13/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of May 9, 2022.

Wednesday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Remuda Basin #1 / NAB1836137253

Thursday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- JRU Legg Battery / nAPP2204943884

Friday

PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910

Thank you,

Adrian Baker Environmental Coordinator Permian Business Unit

XTO Energy Inc. 6401 N. Holiday Hill Dr. Midland, Tx 79707 Mobile:(432)-236-3808 adrian.baker@exxonmobil.com

Green, Garrett J

Green, Garrett J From:

Sent: Friday, February 11, 2022 2:49 PM

To: Mike Bratcher; Victoria Venegas; Rob Hamlet

Cc: DelawareSpills /SM; Allen, Michael; Mascarenas, Aaron; Childs, Geoffry

XTO 48 hour liner inspection notification - JRU Legg Battery **Subject:**

Follow Up Flag: Follow up Flag Status: Flagged

Good afternoon,

This is sent as a 48-hour notification, XTO is scheduled to inspect the lined containment at JRU Legg Battery released on (2/4/2022), on Monday, February 14, 2022, at 10am MST. A 24 hour release notification was sent out on Monday, February 7, 2022 3:25 PM since the release was greater than 25 barrels in volume. Please call us with any questions or concerns.

GPS Coordinates: (32.36851,-103.86746)

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 115769

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	115769
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
jnobui	Deferral Request Approved.	8/26/2022